

GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 12, 2006, 15:15:11 ; Search time 226 Seconds
(without alignments)
115.507 Million cell updates/sec

Title: US-08-870-762b-1
Perfect score: 202
Sequence: 1 KCNTATCATQRLANFLVHSSNNFGPILPTTNGSNTY 37

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : UnlProt.05.80:.*
1: unlprot_sprot:.*
2: unlprot_crembl:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	187	92.6	93	1 IAPP_MOUSE	P12968 mus musculus
2	187	92.6	93	1 IAPP_RAT	P12969 rattus norv
3	184	91.1	37	1 IAPP_CRIGR	P19690 cricetus
4	184	91.1	92	1 IAPP_MESAU	P23442 mesocricetu
5	178	88.1	89	1 IAPP_HUMAN	P10997 homo sapien
6	171	84.7	89	1 IAPP_FELCA	P12667 felis silve
7	169	83.7	89	1 IAPP_CANFA	P17716 canis fami
8	160	79.2	91	1 IAPP_OCTDR	P22889 octodon deg
9	153	75.7	135	2 Q90743_CHICK	Q90743 gallus gall
10	151	74.8	92	1 IAPP_CAVPO	P12966 cavia porce
11	148	73.3	67	1 IAPP_RABIT	Q07334 oryctolagus
12	143	70.8	51	2 Q4TB97_TETNG	Q4TB97 tetraodon n
13	132	65.3	66	2 Q9BBF0_ERIEU	Q9BBF0 erinaceus e
14	120	59.4	32	1 IAPP_SAGOE	Q28934 saginus oe
15	107	53.0	32	1 IAPP_PIG	Q29119 sus scrofa
16	104	51.5	32	1 IAPP_SHEEP	Q28605 ovis aries
17	96	47.5	23	1 IAPP_BOVIN	Q28407 bos taurus
18	96	47.5	37	1 CALCR_RANRI	P31888 rana ridibu
19	96	47.5	32	1 CALCA_CHICK	P10286 gallus gall
20	96	47.5	125	1 CALCR_PHYHI	P81564 phyllomedus
21	94	46.5	115	1 Q6D6J5_BRANE	Q6D6J5 brachydano
22	92	44.5	126	2 Q9BBE1_MACRO	Q9BBE1 macropus ru
23	91	45.0	25	2 P79814_ONCGO	P79814 oncorhynch
24	90	44.6	126	2 Q8QFT9_FUGRU	Q8QFT9 fuqua rubrip
25	90	44.6	184	2 Q4S167_TETNG	Q4S167 tetraodon n
26	89	44.1	56	2 Q92164_ONCSP	Q92164 oncorhynch
27	89	44.1	128	1 CALCA_CANFA	Q9mrv1 canis fami
28	89	44.1	51	2 Q4S173_TETNG	Q4S173 tetraodon n
29	88	43.6	127	1 CALCB_HUMAN	P10092 homo sapien
30	86	42.6	127	2 Q56910_HUMAN	Q56910 homo sapien
31					

32	85	42.1	37	1 CALCA_SHEEP	P30981 ovis aries
33	85	42.1	44	2 Q4THN5_TETNG	Q4THN5 tetraodon n
34	85	42.1	50	2 Q66VC1_RAT	Q66VC1 rattus norv
35	85	42.1	128	1 CALCA_MOUSE	Q991a0 mus musculu
36	85	42.1	128	1 CALCA_RAT	P01256 rattus norv
37	84	41.6	52	2 Q8MNX3_CALJA	Q8MNX3 callithrix
38	84	41.6	53	2 Q90YC3_PAROL	Q90YC3 paralithrix
39	84	41.6	128	1 CALCA_HUMAN	P06881 homo sapien
40	84	41.6	134	1 CALCB_RAT	P10093 rattus norv
41	82	40.6	130	1 CALCB_MOUSE	Q99mp3 mus musculu
42	81	40.1	37	1 CALCA_PIG	P30880 sus scrofa
43	81	40.1	53	2 Q8MNX2_CALJA	Q8MNX2 callithrix
44	80	39.6	129	1 CALCB_HORSE	Q9nnc3 equus cabal
45	79	39.1	60	2 Q9GLK1_RABIT	Q9GLK1 oryctolagus
46	79	39.1	67	2 Q9GLK2_RABIT	Q9GLK2 oryctolagus
47	74	36.6	125	2 Q75V95_BOVIN	Q75V95 bos taurus
48	71	35.1	126	2 Q766Y6_PIG	Q766Y6 sus scrofa
49	70	34.7	125	2 Q862B1_PIG	Q862B1 sus scrofa
50	67	33.2	117	2 Q766Y7_PIG	Q766Y7 sus scrofa
51	66	32.7	127	1 CALCA_HORSE	Q9nnc2 equus cabal
52	61.5	30.4	178	2 Q9UAV9_CAEEL	Q9UAV9 caenorhabd
53	60	29.7	590	2 Q7PX05_ANOGA	Q7PX05 anopheles g
54	59.5	29.5	179	2 Q60WM3_CAEER	Q60WM3 caenorhabd
55	58	28.7	338	2 Q9LSG7_ARATH	Q9LSG7 arabidopsis
56	57	28.2	248	2 Q812V2_PLA7	Q812V2 plasmodium
57	56.5	28.0	430	2 Q9SZA6_ARATH	Q9SZA6 arabidopsis
58	56.5	28.0	559	2 Q02263_CAEEL	Q02263 caenorhabd
59	56.5	28.0	962	2 Q9LRLX1_ARATH	Q9LRLX1 arabidopsis
60	56	27.7	127	2 Q75V94_CANFA	Q75V94 canis fami
61	56	27.7	149	2 Q5W957_GILTI	Q5W957 dioscorea p
62	56	27.7	8402	2 Q4RE89_TETNG	Q4RE89 tetraodon n
63	55.5	27.5	842	2 Q7R6K2_GIALA	Q7R6K2 giardia lam
64	55	27.2	347	2 Q91XP4_MOUSE	Q91XP4 mus musculu
65	55	27.2	549	2 Q6ZSA6_HUMAN	Q6ZSA6 homo sapien
66	55	27.2	866	2 Q7PP39_RAT	Q7PP39 rattus norv
67	55	27.2	1050	1 TIFP1A_HUMAN	O15164 homo sapien
68	55	27.2	1051	1 TIFP1A_MOUSE	O64127 mus musculu
69	54.5	27.0	140	1 Y14K_CSMV	P18920 chloris str
70	54	26.7	300	2 Q6FADI_ACTAD	Q6FADI actinobact
71	54	26.7	354	2 Q4TQ45_9SPHN	Q4TQ45 erythroba
72	54	26.7	444	2 Q7ABE2_ECO57	Q7ABE2 escherichia
73	54	26.7	444	2 Q8X922_ECO57	Q8X922 escherichia
74	54	26.7	917	1 N1AL_ARATH	P11832 arabidopsis
75	54	26.7	1242	2 Q6CNR0_KIULA	Q6CNR0 kluyveromyc
76	53.5	26.5	219	2 Q7ZW53_LBPIC	Q7ZW53 leptospira
77	53.5	26.5	428	2 Q70VZ1_CIOIN	Q70VZ1 ciona intes
78	53.5	26.5	659	2 Q4H3K2_CIOIN	Q4H3K2 ciona intes
79	53.5	26.5	761	2 Q4RN84_TETNG	Q4RN84 tetraodon n
80	53	26.2	217	2 Q6RTJ9_HUMAN	Q6RTJ9 homo sapien
81	53	26.2	346	2 Q4IDQ4_GIBZE	Q4IDQ4 gibberella
82	53	26.2	392	2 Q9L104_ORYSA	Q9L104 oryza sativ
83	53	26.2	509	2 Q5SN48_CRYNBE	Q5SN48 cryptococcu
84	53	26.2	549	2 Q5SCZ7_DICDI	Q5SCZ7 dictyosteli
85	53	26.2	1093	2 Q54GV1_DICDI	Q54GV1 dictyosteli
86	53	26.2	1339	2 Q5CNR0_CRYHO	Q5CNR0 cryptospori
87	53	26.2	2653	2 Q8IHX2_PLA7	Q8IHX2 plasmodium
88	52.5	26.0	233	2 Q9YER4_AARPE	Q9YER4 aeropyrum p
89	52.5	26.0	341	2 Q4X2E1_PLACH	Q4X2E1 zeamays (m
90	52	25.7	407	2 Q8LSK1_MAIZE	Q8LSK1 zeamays (m
91	52	25.7	149	2 Q5W956_GILTI	Q5W956 dioscorea p
92	52	25.7	310	2 Q733U2_BACCI	Q733U2 bacillus ce
93	52	25.7	310	2 Q81YB3_BACAN	Q81YB3 bacillus an
94	52	25.7	315	2 Q8HFP4_BACHK	Q8HFP4 bacillus th
95	52	25.7	323	2 Q9BKX8_CAEEL	Q9BKX8 caenorhabd
96	52	25.7	347	2 Q4QM34_HAE18	Q4QM34 haemophilus
97	52	25.7	424	1 SYS_PROMP	Q700r7 pneumococo
98	52	25.7	434	2 Q6HVN6_BACAN	Q6HVN6 bacillus an
99	52	25.7	434	2 Q637B1_BACCN	Q637B1 bacillus ce
100	52	25.7	499	2 Q4XV12_PLACH	Q4XV12 plasmodium

ALIGNMENTS

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RESULT 1
IAPP_MOUSE
ID IAPP_MOUSE STANDARD; PRT; 93 AA.
AC P12968;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 13-SEP-2005 (Rel. 48, Last annotation update)
DE Islet amyloid polypeptide precursor (Diabetes-associated peptide)
DE (DAP) (Amylin).
GN Name=Iapp;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89345542; PubMed=2668946;
RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.F.;
RT "Conservation of the sequence of islet amyloid polypeptide in five
RT mammals is consistent with its putative role as an islet hormone.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742(1989).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX STRAIN=DBA/2J; TISSUE=Liver;
RX MEDLINE=97424750; PubMed=9278863; DOI=10.1677/jme.0.0190079;
RA Ekawa K., Nishi M., Ohagi S., Sanke T., Nanto K.;
RT "Cloning of mouse islet amyloid polypeptide gene and characterization
RT of its promoter.";
RL J. Mol. Endocrinol. 19:79-86(1997).
RN [3]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RX STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=22286257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Prange C.,
RA Brownstein M.J., Umed T.B., Toshiyuki S., Carninci P., Schaefer C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulhally S.J.,
RA Boeak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mulhally S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hultk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green B.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schercher A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [4]
RP PROTEIN SEQUENCE OF 38-74.
RX MEDLINE=89325677; PubMed=2666169; DOI=10.1016/0014-5793(89)81467-X;
RA Bertholtz C., Christmannson L., Engstroem U., Rorsman F., Svensson V.,
RA Johnson K.H., Westermark P.;
RT "Sequence divergence in a specific region of islet amyloid polypeptide
RT (IAPP) explains differences in islet amyloid formation between
RT species.";
RL FEBS Lett. 251:261-264(1989).
RN [5]
RP FUNCTION: Selectively inhibits insulin-stimulated glucose
RN utilization and glycogen deposition in muscle, while not affecting
RN adipocyte glucose metabolism.
RN [6]
RP SUBCELLULAR LOCATION: Secreted.
RN [7]
RP SIMILARITY: Belongs to the calcitonin family.
RN [8]
RP This Swiss-Prot entry is copyright. It is produced through a collaboration
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RN the European Bioinformatics Institute. There are no restrictions on its

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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL; M25389; AAA37874.1; -; mRNA.
DR EMBL; D31820; BAA22051.1; -; Genomic DNA.
DR EMBL; BC027527; AAH27527.1; -; mRNA.
DR PIR; C3542; C3542.
DR Ensembl; ENSMUSG0000041681; Mus musculus.
DR MGI; MGI:96382; IAPP. Mus musculus.
DR GO; GO:0005615; C:extracellular space; TAS.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
DR Amdaction; Amyloid; Cleavage on pair of basic residues;
KW Direct protein sequencing; Hormone; Signal.
FT SIGNAL 1 23 Potential.
FT PROPEP 24 35 Islet amyloid polypeptide.
FT PEPTIDE 38 74
FT PROPEP 78 93
FT MOD_RES 74 74 Tyrosine amide (G-75 provides amide
FT group).
FT DISULFID 39 44 By similarity.
FT SEQUENCE 93 AA; 10022 MW; B135DBCB81475B15 CRC64;
SQ
Query Match 92.6%; Score 187; DB 1; Length 93;
Best local Similarity 91.9%; Pred. No. 2,2e-18;
Matches 34; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
OY 1 KONTATCATOPLANELVHSSNNRGPILPPTVNSNTY 37
DB 38 KONTATCATOPLANPLVRSSNNLGPVLPPTVNSNTY 74
RESULT 2
IAPP_RAT
ID IAPP_RAT STANDARD; PRT; 93 AA.
AC P12969;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Diabetes-associated peptide)
DE (DAP) (Amylin).
GN Name=Iapp;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89345542; PubMed=2668946;
RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.F.;
RT "Conservation of the sequence of islet amyloid polypeptide in five
RT mammals is consistent with its putative role as an islet hormone.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742(1989).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89240689; PubMed=2654937;
RA Leffert J.D., Newgard C.B., Okamoto H., Milburn J.L., Luskey K.L.;
RT "Rat amylin: cloning and tissue-specific expression in pancreatic
RT islets.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:3127-3130(1989).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RX STRAIN=WAR; TISSUE=Liver;
RX MEDLINE=91027936; PubMed=2223885; DOI=10.1016/0167-4781(90)90210-S;
RA van Mansteeld A.D.M., Mosselman S., Hoepfner J.W.M., Zandberg J.,
RA van Teffelen H.A.A.M., Baas P.D., Lips C.J.M., Jansz H.S.;

```

RT "Islet amyloid polypeptide: structure and upstream sequences of the
 RT IAPP gene in rat and man.";
 RL Biochim. Biophys. Acta 1087:235-240(1990).
 RN (4)
 RP PROTEIN SEQUENCE OF 38-74.
 RX MEDLINE=90026410; PubMed=2679555;
 RA Asai J., Nakazato M., Kangawa K., Matsukura S., Matsuo H.;
 RT "Isolation and sequence determination of rat islet amyloid
 RT polypeptide.";
 RL Biochem. Biophys. Res. Commun. 164:400-405(1989).
 RN (5)
 RP PROTEIN SEQUENCE OF 38-74.
 RX MEDLINE=90290528; PubMed=2357234;
 RA Asai J., Nakazato M., Miyazato M., Kangawa K., Matsuo H.,
 RA Matsukura S.;
 RT "Regional distribution and molecular forms of rat islet amyloid
 RT polypeptide.";
 RL Biochem. Biophys. Res. Commun. 169:788-795(1990).
 RN [6]
 RP NUCLEOTIDE SEQUENCE OF 38-74.
 RX MEDLINE=89325677; PubMed=2666169; DOI=10.1016/0014-5793(89)81467-X;
 RA Betsholtz C., Christmansson L., Engstrom U., Korsman F., Svensson V.,
 RA Johnson K.H., Westermarck P.;
 RT "Sequence divergence in a specific region of islet amyloid polypeptide
 RT (IAPP) explains differences in islet amyloid formation between
 RT species.";
 RL FEBS Lett. 251:261-264(1989).
 CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
 CC utilization and glycogen deposition in muscle, while not affecting
 CC adipocyte glucose metabolism.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: Abundant in the islets of Langerhans but is
 CC not present in the brain or seven other tissues examined.
 CC -1- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL: M25390; AAA41359.1; -; mRNA.
 CC EMBL: J04544; AAA40730.1; -; mRNA.
 CC EMBL: X52820; CAA37003.1; -; Genomic DNA.
 CC EMBL: X52821; CAA37003.1; JOINED; Genomic DNA.
 CC PIR: S13566; TCRTA.
 CC Ensembl: ENSRNOG0000012417; Rattus norvegicus.
 CC RGD: 2654; IAPP.
 CC InterPro: IPR000443; Amylin.
 CC InterPro: IPR001693; Calcitonin-like.
 CC InterPro: IPR002163; Calcitonin_B.
 CC Pfam: PF00214; Calc_CGRP_IAPP; 1.
 CC PRINTS: PR00817; CALCITONINB.
 CC PRINTS: PR00818; ISLETAMYL0ID.
 CC SMART: SM00113; CALCITONIN; 1.
 CC PROSITE: PS00258; CALCITONIN; 1.
 CC AMIaction; Amyloid; Cleavage on pair of basic residues;
 CC Direct protein sequencing; Hormone; Signal.
 CC SIGNAL 1 23
 CC PROPEP 24 35
 CC PEPTIDE 36 74
 CC PROPEP 78 93
 CC MOD_RES 74 74
 CC Tyrosine amide (G-75 provides amide
 CC group).
 CC By similarity.
 CC DISULFID 39 44
 CC FT SEQUENCE 93 AA; 10015 MW; 5A76C92B624DA962 CRC64;
 SO
 Query Match 92.6%; Score 187; DB 1; Length 93;
 Best Local Similarity 91.9%; Pred. No. 2e-18;
 Matches 34; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Db 38 KCNTATCATQRLANFLVRSNNLGPVLPPTVNGSNTY 74
 RESULT 3
 IAPP_CRIGR STANDARD; PRT; 37 AA.
 AC P19850;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Islet amyloid polypeptide (Amylin).
 GN Name=IAPP;
 OS Cricetus griseus (Chinese hamster).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Cricetidae; Cricetinae; Cricetulus.
 OX NCBI_TaxId=10029;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=89325677; PubMed=2666169; DOI=10.1016/0014-5793(89)81467-X;
 RA Betsholtz C., Christmansson L., Engstrom U., Korsman F., Svensson V.,
 RA Johnson K.H., Westermarck P.;
 RT "Sequence divergence in a specific region of islet amyloid polypeptide
 RT (IAPP) explains differences in islet amyloid formation between
 RT species.";
 RL FEBS Lett. 251:261-264(1989).
 CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
 CC utilization and glycogen deposition in muscle, while not affecting
 CC adipocyte glucose metabolism.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC PIR: S05037; S05037.
 CC InterPro: IPR000443; Amylin.
 CC InterPro: IPR001693; Calcitonin-like.
 CC InterPro: IPR002163; Calcitonin_B.
 CC Pfam: PF00214; Calc_CGRP_IAPP; 1.
 CC PRINTS: PR00817; CALCITONINB.
 CC PRINTS: PR00818; ISLETAMYL0ID.
 CC SMART: SM00113; CALCITONIN; 1.
 CC PROSITE: PS00258; CALCITONIN; 1.
 CC AMIaction; Amyloid; Hormone.
 CC MOD_RES 37 37
 CC Tyrosine amide.
 CC DISULFID 2 7
 CC FT SEQUENCE 37 AA; 3921 MW; FE433D905EBF82E CRC64;
 SO
 Query Match 91.1%; Score 184; DB 1; Length 37;
 Best Local Similarity 89.2%; Pred. No. 2e-18;
 Matches 33; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVRSNNLGPVLPPTVNGSNTY 37
 Db 1 KCNTATCATQRLANFLVRSNNLGPVLPPTVNGSNTY 37
 RESULT 4
 IAPP_MESAU STANDARD; PRT; 92 AA.
 AC P23442;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 01-NOV-1991 (Rel. 20, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Islet amyloid polypeptide precursor (Amylin).
 GN Name=IAPP;
 OS Mesocricetus auratus (Golden hamster).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Muronotoglires; Muridae; Muridae; Muridae; Muridae;

OC Muroidea; Criceidae; Criceinae; Mesocricetus.
OX NCBI_TaxID=10036;
RN [1]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=91067499; PubMed=2251153;
RA Nishi M., Bell G.I., Steiner D.F.;
RT "Sequence of a cDNA encoding Syrian hamster islet amyloid polypeptide precursor."
RL Nucleic Acids Res. 18:6726-6726(1990).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose utilization and glycogen deposition in muscle, while not affecting adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC -----
DR EMBL; X56067; CAA39545.1; -, mRNA.
DR PIR; S13116; S13116.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; 1.
DR PRINTS; PRO0817; CALCITONINB.
DR PRINTS; PRO0818; ISLETAMYLLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 34 Islet amyloid polypeptide.
FT PROPEP 77 92 Tyrosine amide (G-74 provides amide group).
FT MOD_RES 73 73
FT DISULFID 38 43
SQ SEQUENCE 92 AA; 9899 MW; 6D2F7359C4A1D029 CRC64;
Query Match 91.1%; Score 184; DB 1; Length 92;
Best Local Similarity 89.2%; Pred. No. 5, 7e-18;
Matches 33; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 KONTATCATQRLANFLVHSSNFGPILPTNGSNTY 37
Db 37 KONTATCATQRLANFLVHSSNFGPILPTNGSNTY 73
RESULT 5
IAPP HUMAN
ID IAPP_HUMAN STANDARD; PRT; 89 AA.
AC P10997; Q14598;
DT 01-JUL-1989 (Rel. 11, Created)
DT 01-JUL-1989 (Rel. 11, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Diabetes-associated peptide) (DAP) (Amylin) (Insulinoma amyloid peptide).
GN Name=IAPP;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
OC NCBI_TaxID=9606;
OX [1]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=8921134; PubMed=2651160; DOI=10.1016/0014-5793(89)81260-8;
RA Moseelman S., Hoepfner J.W.M., Lips C.J.M., Janz H.S.;
RT "The complete islet amyloid polypeptide precursor is encoded by two exons."
RL PDBS Lett. 247:154-158(1989).

RN [2]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=90114181; PubMed=2608057;
RA Nishi M., Sanke T., Sano S., Eddy R.L., Fan Y.-S., Byers M.G., Shows T.B., Bell G.I., Steiner D.F.;
RT "Human islet amyloid polypeptide gene: complete nucleotide sequence, and chromosomal localization, and evolutionary history."
RL Mol. Endocrinol. 3:1775-1781(1989).
RN [3]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=89034238; PubMed=3053705;
RA Sanke T., Bell G.I., Sample C., Rubenstein A.H., Steiner D.F.;
RT "An islet amyloid peptide is derived from an 89-amino acid precursor by proteolytic processing."
RL J. Biol. Chem. 263:17243-17246(1988).
RN [4]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=90306394; PubMed=2365085; DOI=10.1016/0014-5793(90)80314-9;
RA Christman L., Rorsman F., Stenman G., Westermark P., Betsholtz C.;
RT "The human islet amyloid polypeptide (IAPP) gene. Organization, chromosomal localization and functional identification of a promoter region."
RL PDBS Lett. 267:160-166(1990).
RN [5]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=91027936; PubMed=2223985; DOI=10.1016/0167-4781(90)90210-S;
RA van Mansfeld A.D.M., Moseelman S., Hoepfner J.W.M., Zandberg J., van Teeffelen H.A.A.M., Baas P.D., Lips C.J.M., Janz H.S.;
RT "Islet amyloid polypeptide: structure and upstream sequences of the IAPP gene in rat and man."
RL Biochim. Biophys. Acta 1087:235-240(1990).
RN [6]
RX NUCLEOTIDE SEQUENCE.
RP MEDLINE=93129228; PubMed=1282806;
RA Hoepfner J.W.M., Oosterwijk C., Visser-Vernooij H.J., Lips C.J.M., Janz H.S.;
RT "Characterization of the human islet amyloid polypeptide/amylin gene transcripts: identification of a new polyadenylation site."
RL Biochem. Biophys. Res. Commun. 189:1569-1577(1992).
RN [7]
RX NUCLEOTIDE SEQUENCE OF 28-89.
RP MEDLINE=89031237; PubMed=3181427; DOI=10.1016/0014-5793(88)80922-0;
RA Moseelman S., Hoepfner J.W.M., Zandberg J., van Mansfeld A.D.M., Geurts van Kessel A.H.M., Lips C.J.M., Janz H.S.;
RT "Islet amyloid polypeptide: identification and chromosomal localization of the human gene."
RL PDBS Lett. 239:227-232(1988).
RN [8]
RX PROTEIN SEQUENCE OF 34-52.
RP MEDLINE=87048863; PubMed=3535798;
RA Westermark P., Wernstedt C., Wilander E., Sletten K.;
RT "A novel peptide in the calcitonin gene related peptide family as an amyloid fibril protein in the endocrine pancreas."
RL Biochem. Biophys. Res. Commun. 140:827-831(1986).
RN [9]
RX PROTEIN SEQUENCE OF 34-70.
RP MEDLINE=87231921; PubMed=3035556;
RA Westermark P., Wernstedt C., Wilander E., Hayden D.W., O'Brien T.D., Johnson K.H.;
RT "Amyloid fibrils in human insulinoma and islets of Langerhans of the diabetic cat are derived from a neuropeptide-like protein also present in normal islet cells."
RL Proc. Natl. Acad. Sci. U.S.A. 84:3881-3885(1987).
RN [10]
RX PROTEIN SEQUENCE OF 30-89.
RP MEDLINE=9009324; PubMed=2690069;
RA Roberts A.N., Leighton B., Todd J.A., Cockburn D., Schofield P.N., Sutton R., Holt S., Boyd Y., Day A.J., Foot E.A., Willis A.C., Reid K.B.M., Cooper G.J.S.;
RT "Molecular and functional characterization of amylin, a peptide associated with type 2 diabetes mellitus."
RL Proc. Natl. Acad. Sci. U.S.A. 86:9662-9666(1989).
RN [11]

SQ SEQUENCE 60 AA; 6485 MW; 5DBA512A4E8994AE CRC64;
 Query Match 39.1%; Score 79; DB 2; Length 60;
 Best Local Similarity 53.1%; Pred. No. 0.0024;
 Matches 17; Conservative 1; Mismatches 14; Indels 0; Gaps 0;
 QY 2 CNTATCATQRLANFLVHSSNFGPIIPPTNVG 33
 DB 28 CNTATCVTHRLADLRSRGVKNFVPTNVG 59
 RESULT 46
 O9GLK2_RABIT PRELIMINARY; PRT; 67 AA.
 AC O9GLK2;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Calcitonin gene-related peptide variant 1 (Fragment).
 OS Oryctolagus cuniculus (Rabbit).
 OC Eukaryota; Metazoa; Chordata; Craniala; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;
 OC Oryctolagus.
 OX NCBI_TaxID=9986;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RA Davis M.C., Gierasch W.W., Russo A.F.;
 RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL; A260272; AAG1553.1; -; mRNA.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0005179; F:ionome activity; IEA.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc CGRP IAPP; I.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYL0ID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 FT NON TER 1 1
 FT NON TER 67 67
 SQ SEQUENCE 67 AA; 7286 MW; 99CC326C159BC501 CRC64;
 Query Match 39.1%; Score 79; DB 2; Length 67;
 Best Local Similarity 53.1%; Pred. No. 0.0027;
 Matches 17; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
 QY 2 CNTATCATQRLANFLVHSSNFGPIIPPTNVG 33
 DB 35 CNTATCVTHRLAGLSRSGVMKSNFVPTNVG 66
 RESULT 47
 O75V95_BOVIN PRELIMINARY; PRT; 125 AA.
 AC O75V95;
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
 DE Calcitonin receptor-stimulating peptide-1.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniala; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RA PubMed=14672700; DOI=10.1016/j.birc.2003.11.114;
 RA Katafuchi T., Hamano K., Minamino N.;
 RT "Identification, structural determination, and biological activity of
 RT bovine and canine calcitonin receptor-stimulating peptides.";
 RL Biochem. Biophys. Res. Commun. 313:74-79(2004).
 DR EMBL; AB125101; BAD05115.1; -; mRNA.

DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0005179; F:hormone activity; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc CGRP IAPP; I.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYL0ID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; UNKNOWN_1.
 KW RECEPTOR.
 SQ SEQUENCE 125 AA; 14356 MW; 39929D89FB61CFD7 CRC64;
 Query Match 36.6%; Score 74; DB 2; Length 125;
 Best Local Similarity 50.0%; Pred. No. 0.028;
 Matches 16; Conservative 3; Mismatches 13; Indels 0; Gaps 0;
 QY 2 CNTATCATQRLANFLVHSSNFGPIIPPTNVG 33
 DB 81 CNTATCVTHRLAGLSRSGVMKSNFVPTNVG 112
 RESULT 48
 Q766Y6_PIG PRELIMINARY; PRT; 125 AA.
 AC Q766Y6;
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
 DE Calcitonin receptor-stimulating peptide-3.
 OS Sus scrofa (Pig).
 OC Eukaryota; Metazoa; Chordata; Craniala; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suidae;
 OC Sus.
 OX NCBI_TaxID=9823;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RA MEDLINE=22796190; PubMed=12914769; DOI=10.1016/S0006-291X(03)01413-X;
 RA Katafuchi T., Hamano K., Kikumoto K., Minamino N.;
 RT "Identification of second and third calcitonin receptor-stimulating
 RT peptides in porcine brain.";
 RL Biochem. Biophys. Res. Commun. 308:445-451(2003).
 DR EMBL; AB114134; BAC81766.1; -; mRNA.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0005179; F:hormone activity; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc CGRP IAPP; I.
 DR PRINTS; PR00817; CALCITONINB.
 DR SMART; SM00113; CALCITONIN; 1.
 KW RECEPTOR.
 SQ SEQUENCE 125 AA; 14036 MW; 6F8166F9D8907F8E CRC64;
 Query Match 35.1%; Score 71; DB 2; Length 125;
 Best Local Similarity 45.9%; Pred. No. 0.073;
 Matches 17; Conservative 4; Mismatches 8; Indels 8; Gaps 2;
 QY 2 CNTATCATQRLANFLVHSSNFGPIIPPTNVG 34
 DB 81 CNTATCVTHRLAGLSRSGVMKSNFVPTNVG 113
 RESULT 49
 Q862B1_PIG PRELIMINARY; PRT; 126 AA.
 AC Q862B1;
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Calcitonin receptor-stimulating peptide.
 GN Name=CRSP;

FT	MOD_RES	37	37		Phenylalanine amide.
FT	DISTRFD	2	7		By similarity.
SQ	SEQUENCE	37 AA;	3814 MW;		O4CDEBBD248B64BA CRC64;
	Query Match		40.1%;	Score 81; DB 1;	Length 37;
	Best Local Similarity		47.2%;	Pred. No. 0.0071;	
	Matches	17; Conservative	2;	Mismatches	17; Indels
OY		2	CNTATCATGRLANPLVHSSNNFGPIPLPTNGSNTY	37	
					:
DB		2	CNTATCVTHRLAGLLSRSGGWKSNFVPTDVGSSEAF	37	
	RESULT 43				
	QBMMX2 CALJA				
ID	QBMMX2_CALJA	PRELIMINARY;	PRT;	53 AA.	
AC	QBMMX2;				
DT	01-MAR-2002	(TREMBLrel. 20, Created)			
DT	01-MAR-2002	(TREMBLrel. 20, Last sequence update)			
DT	01-JUN-2003	(TREMBLrel. 24, Last annotation update)			
DE	Beta-calcitonin-related protein (Fragment).				
GN	Name=beta-CGRP;				
OS	Callitrix jacchus (Common marmoset).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;				
OX	NCB1_Taxid=9483;				
RN	[1]				
RP	NUCLEOTIDE SEQUENCE.				
RA	Schindler W., Fischer E.,				
RL	Submitted (Oct-2001) to the EMBL/GenBank/DDBJ databases.				
DR	EMBL; AF442154; AAL35593.1; -; Genomic DNA.				
DR	GO; GO:0005576; C:extracellular region; IEA.				
DR	GO; GO:0005179; F:hormone activity; IEA.				
DR	InterPro; IPR000443; Amylin.				
DR	InterPro; IPR001693; Calcitonin-like.				
DR	InterPro; IPR002163; Calcitonin_B.				
DR	Pfam; PF00214; Calc_CGR_IAP; 1.				
DR	PRINTS; PR00817; CALCITONINB.				
DR	PRINTS; PRO0818; ISLETAMYLOID.				
DR	SMART; SMO0113; CALCITONIN; 1.				
DR	PROSITE; PS00258; CALCITONIN; 1.				
FT	NON_TER	1	1		
SQ	SEQUENCE	53 AA;	5710 MW;	A76A34E3D5E3E99C	CRC64;
	Query Match		40.1%;	Score 81; DB 2;	Length 53;
	Best Local Similarity		47.2%;	Pred. No. 0.0011;	
	Matches	17; Conservative	2;	Mismatches	17; Indels
OY		2	CNTATCATGRLANPLVHSSNNFGPIPLPTNGSNTY	37	
					:
DB		9	CNTATCVTHRLAGLLSRSGGWKSNFVPTDVGSKAF	44	
	RESULT 44				
	CALCB_HORSE				
ID	CALCB_HORSE	STANDARD;	PRT;	129 AA.	
AC	Q5NUT3;				
DT	28-FEB-2003	(Rel. 41, Created)			
DT	28-FEB-2003	(Rel. 41, Last sequence update)			
DT	10-MAY-2005	(Rel. 47, Last annotation update)			
DE	Calcitonin gene-related peptide II precursor (GGRP-II) (Beta-type CGRP)				
GN	Name=CALCB;				
OS	Equus caballus (Horse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Laurasiatheria; Perissodactyla; Equidae; Equus.				
OX	NCBI_Taxid=9796;				
RN	[1]				
RP	NUCLEOTIDE SEQUENCE.				
RA	MEHLIN=22470155; PubMed=12581884; DOI=10.1016/S0303-7207(02)00289-7;				
RA	Toribio R.E., Kohn C.W., Leone G.W., Capen C.C., Rosol T.J.;				
RA	"Molecular cloning and expression of equine calcitonin, calcitonin				

RT	gene-related peptide-I, and calcitonin gene-related peptide-II.";
RL	Mol. Cell. Endocrinol. 199;119-128(2003).
CC	-I- FUNCTION: CGRP induces vasodilatation. It dilates a variety of vessels including the coronary, cerebral and systemic vasculature.
CC	Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role (By similarity).;
CC	-I SUBCELLULAR LOCATION: Secreted.
CC	-I SIMILARITY: Belongs to the calcitonin family.
CC	-----
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CC	-----
DR	EMBL; AF257470; AAF70199.1; -, mRNA.
DR	InterPro; IPR000443; Amylin.
DR	InterPro; IPR001693; Calcitonin-like.
DR	Pfam; PF00214; Calc CGRP IAP; 1.
DR	PRINTS; PR00817; CALCITONINB.
DR	SMART; SMO0113; CALCITONIN; 1.
DR	PROSITE; PS00258; CALCITONIN; 1.
KM	Amidalgin; Cleavage on pair of basic residues; Hormone; Signal.
FT	SIGNAL 1 25 Potential.
FT	PEPIDE 26 81 By similarity.
FT	PROPER 84 120 Calctonin gene-related peptide II.
FT	PROPER 126 129 By similarity.
FT	MOD_RES 120 120 Phenylalanine amide (G-121 provides amide group) (By similarity)".
FT	DISULFID 85 90 By similarity.
SEQ	SEQUENCE 129 AA; 13925 MW; 97C2CTACTT3ABD9B CRC64;
Query Match	39.6%; Score 80; DB 1; Length 129;
Best Local Similarity	47.2%; Pred. No. 0.0041;
Matches 17; Conservative 2; Mismatches 17; Indels 0; Gaps 0;	
Oy	2 CNTATCATQRIANFLVHSSNNFGPIIPPTNGSNTY 37 : Db 85 CMTATCVTHRAGLSRSGLVVKSNFPPTDGSEAF 120
RESULT 45	
Ogglk1 RABIT	
ID Ogglk1 RABIT PRELIMINARY; PRT; 60 AA.	
AC Ogglk1:	
DT 01-MAR-2001 (TREMBLrel. 16 (Created)	
DT 01-MAR-2001 (TREMBLrel. 16, last sequence update)	
DT 01-JUN-2003 (TREMBLrel. 24, last annotation update)	
DE Calcitonin gene-related peptide (Fragment).	
OS Oryctolagus cuniculus (Rabbit).	
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae; Oryctolagus.	
OX NCBI_Taxid=9986;	
EN [1]	
NP NUCLEOTIDE SEQUENCE. RA Davis M.C., Giersach W.W., Russo A.F.; RL Submitted (Apr-2000) to the EMBL/GenBank/DBJ databases. RE EMBL; AF260273; AAG15536.1; -, mRNA. DR GO; GO:0005576; C:extracellular region; IEA. DR GO; GO:0005179; F:hormone activity; IEA. DR InterPro; IPR000443; Amylin. DR InterPro; IPR001693; Calcitonin-like. DR InterPro; IPR002163; Calcitonin B. DR Pfam; PF00214; Calc CGRP IAP; 1. DR PRINTS; PR00817; CALCITONINB. DR PRINTS; PR00818; ISLETAMYLoid. DR SMART; SMO0113; CALCITONIN; 1. DR PROSITE; PS00258; CALCITONIN; 1. FT NON_TER 1 1 FT NON_TER 60 60	

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DR EMBL; M1596; AAA40850.1; -; mRNA.
DR PIR; A44173; A44173.
DR Ensembl; ENSRNOG0000011074; Rattus norvegicus.
DR RGD; 620997; CalcB.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KM Amidation; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 26 Potential.
FT PROPEP 27 86 By similarity.
FT PEPTIDE 89 125 Calcitonin gene-related peptide II.
FT PROPEP 131 134 By similarity.
FT MOD_RES 125 125 Phenylalanine amide (G-126 provides amide
FT DISULFID 90 95 group) (By similarity).
SQ SEQUENCE 134 AA; 14965 MW; BF6CAF87A489B38 CRC64;

Query Match 41.6%; Score 84; DB 1; Length 134;
Best Local Similarity 50.0%; Pred. No. 0.0012;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 90 CNTATCVTHRLAGLRRSGGVTKDNFVPTNVGSKAF 125

RESULT 41
CALCB_MOUSE STANDARD; PRT; 130 AA.
AC 099MP3;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 47, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide II precursor (CGRP-II) (Beta-type
DE CGRP).
GN Name=CalcB;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=129/Sv.
RX MEDLINE=21604266; PubMed=11761712;
RA Thomas P.M., Nasonkin I., Zhang H., Gage R.F., Cole G.J.;
RT "Structure of the mouse calcitonin/calcitonin gene-related peptide
RT alpha and beta genes";
RT DNA Seq. 12:131-135(2001).
CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC removed.

DR EMBL; AF325526; AAK16431.1; -; Genomic DNA.
DR EMBL; AF325524; AAK16431.1; JOINED; Genomic DNA.
DR Ensembl; ENSMUSG0000030666; Mus musculus.
DR MGI; MGI:2151254; CalcB.
DR GO; GO:0005615; Extracellular space; TAS.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KM Amidation; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 26 Potential.
FT PROPEP 27 82 By similarity.
FT PEPTIDE 84 120 Calcitonin gene-related peptide II.
FT PROPEP 127 130 By similarity.
FT MOD_RES 120 120 Phenylalanine amide (G-121 provides amide
FT DISULFID 85 90 group) (By similarity).
SQ SEQUENCE 130 AA; 14623 MW; 97299244B8F6C36 CRC64;

Query Match 40.6%; Score 82; DB 1; Length 130;
Best Local Similarity 47.2%; Pred. No. 0.0021;
Matches 17; Conservative 3; Mismatches 16; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 85 CNTATCVTHRLADLSRSGGVTKDNFVPTNVGSSEAF 120

RESULT 42
CALCA_PIG STANDARD; PRT; 37 AA.
AC P30860;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide (CGRP).
GN Name=CALCA; Synonyms=CALC;
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suidae;
OC Sus.
OX NCBI_TaxID=9823;
RN [1]
RP PROTEIN SEQUENCE.
RX MEDLINE=87173481; PubMed=3494209; DOI=10.1016/0143-4179(87)90034-5;
RA Kimura S., Sugita Y., Kanazawa I., Saito A., Goto K.;
RT "Isolation and amino acid sequence of calcitonin gene related peptide
RT from porcine spinal cord";
RT Neuropeptides 9:75-82(1987).
CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.

DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KM Amidation; Direct protein sequencing; Hormone.

RX MEDLINE=87213363; PubMed=3034287;
 RA Craig R.K., Riley J.H., Edbrooke M.R., Broad P.M., Foord S.M.,
 RA Al-Kazwini S.J., Holman J.J., Marshall I.,
 RT "Expression and function of the human calcitonin/alpha-CGRP gene in
 RT health and disease.";
 RT Biochem. Soc. Symp. 52:91-105(1986).
 [7]
 RP PROTEIN SEQUENCE OF 83-119.
 RA MEDLINE=84191466; PubMed=6609312;
 RA Morris H.R., Panico M., Etienne T., Tipkins J., Girgis S.I.,
 RA McIntyre I.,
 RT "Isolation and characterization of human calcitonin gene-related
 RT peptide.";
 RT Nature 308:746-748(1984).
 [8]
 RP PARTIAL PROTEIN SEQUENCE OF 83-117.
 RA MEDLINE=87109142; PubMed=3492492;
 RA Petermann J.B., Born W., Chang J.Y., Fischer J.A.,
 RT "Identification in the human central nervous system, pituitary, and
 RT thyroid of a novel calcitonin gene-related peptide, and partial amino
 RT acid sequence in the spinal cord.";
 RT J. Biol. Chem. 262:542-545(1987).
 [9]
 RP PROTEIN SEQUENCE OF 83-108, AND FUNCTION.
 RC TISSUE=pheochromocytoma.
 RX MEDLINE=92287083; PubMed=1318039;
 RA Kitamura K., Kangawa K., Kawamoto M., Ichiki Y., Matsuo H., Eto T.,
 RT "Isolation and characterization of peptides which act on rat
 RT platelets, from a pheochromocytoma.";
 RT Biochem. Biophys. Res. Commun. 185:134-141(1992).
 [10]
 RP STRUCTURE BY NMR OF CGRP.
 RX MEDLINE=91105142; PubMed=1988044;
 RX Breese A.L., Harvey T.S., Bazzo R., Campbell I.D.,
 RT "Solution structure of human calcitonin gene-related peptide by 1H NMR
 RT and distance geometry with restrained molecular dynamics.";
 RT Biochemistry 30:575-582(1991).
 [11]
 RP STRUCTURE BY NMR OF CGRP.
 RX MEDLINE=91248117; PubMed=2039456;
 RA Hubbard J.A.M., Martin S.R., Chaplin L.C., Bose C., Kelly S.M.,
 RA Price N.C.,
 RT "Solution structures of calcitonin-gene-related-peptide analogues of
 RT calcitonin-gene-related peptide and amylin.";
 RT Biochem. J. 275:785-788(1991).
 CC -I- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 CC vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role. It also elevates platelet cAMP.
 CC -I- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=3;
 CC Name=3;
 CC IsoId=P06881-1; Sequence=Displayed;
 CC Name=1;
 CC IsoId=P01258-1; Sequence=External;
 CC Name=2;
 CC IsoId=P01258-2; Sequence=External;
 CC -I- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL; M12667; AAA51914.1; -; Genomic DNA.
 CC EMBL; M12664; AAA51914.1; JOINED; Genomic DNA.
 CC EMBL; M12665; AAA51914.1; JOINED; Genomic DNA.
 CC EMBL; X15943; CAA34070.1; -; Genomic DNA.
 CC EMBL; K03512; AAA52011.1; -; mRNA.
 CC EMBL; X02350; CAA26190.1; -; mRNA.
 CC EMBL; M28637; AAA52012.1; -; Genomic DNA.
 CC EMBL; M26094; AAA51912.1; -; Genomic DNA.

DR PIR: S07644; TCHUR.
 DR PDB: 1LS7; Model: A=1-125.
 DR Ensembl; ENSG00000110680; Homo sapiens.
 DR HGNC; HGNC:1437; CALCA.
 DR MIM; 114130; -;
 DR GO; GO:0005783; C:endorphin reticulum; TAS.
 DR GO; GO:0005615; C:extracellular space; TAS.
 DR GO; GO:0005625; C:soluble fraction; TAS.
 DR GO; GO:0005102; F:receptor binding; TAS.
 DR GO; GO:0007190; P:adenylate cyclase activation; TAS.
 DR GO; GO:0007267; P:cell-cell signaling; TAS.
 DR GO; GO:0007188; P:G-protein signaling, coupled to cAMP nucleo. . .; TAS.
 DR GO; GO:0007202; P:phospholipase C activation; TAS.
 DR GO; GO:0007204; P:positive regulation of cytosolic calcium io. . .; TAS.
 DR GO; GO:0008217; P:regulation of blood pressure; TAS.
 DR GO; GO:0001501; P:skeletal development; TAS.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc CGRP APP. I.
 DR PRINTS; PR00817; CALCITONINB.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 KW 3D-structure; Alternative splicing; Amidation;
 KW Cleavage on pair of basic residues; Direct protein sequencing;
 KW Hormone; Signal.
 FT SIGNAL 1 25 Potential.
 FT PROPEP 26 80
 FT PEPTIDE 83 119 Calcitonin gene-related peptide I.
 FT PROPEP 125 128
 FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide
 FT group).
 FT DISULFD 84 89
 SQ SEQUENCE 128 AA; 13899 MW; A003A1069260D988 CRC64;
 Query Match 41.6%; Score 84; DB 1; Length 128;
 Best Local Similarity 50.0%; Pred. No. 0.0011;
 Matches 20; Conservative 2; Mismatches 10; Indels 8; Gaps 2;
 Oy 2 CNTATCATQRIANFLVHS---SNNFGILPPTVNGSNTY 37
 Db 84 CDTATCVTHRLAGLSRSQGVKNF---VPTNWSKAF 119
 RESULT 40
 CALCB RAT STANDARD; PRT; 134 AA.
 ID CALCB RAT STANDARD; PRT; 134 AA.
 AC P10093;
 DT 01-MAR-1989 (Rel. 10, Created)
 DT 01-MAR-1989 (Rel. 10, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DB Calcitonin gene-related peptide II precursor (CGRP-II) (Beta-type
 DB CGRP).
 GN Name=Calcb;
 OS Rattus norvegicus (Rat).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 CC Muridea; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=85300490; PubMed=2994212;
 RA Amara S.G., Arizze J.L., Leff S.F., Swanson L.W., Evans R.M.,
 RA Rosenfeld M.G.,
 RT "Expression in brain of a messenger RNA encoding a novel neuropeptide
 RT homologous to calcitonin gene-related peptide.";
 RT Science 229:1094-1097(1985).
 CC -I- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 CC vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role.
 CC -I- SUBCELLULAR LOCATION: Secreted.
 CC -I- SIMILARITY: Belongs to the calcitonin family.

DB 84 CNTATCVTHRLAGLSRSGGVKDNFVPTNVGSEAF 119

RESULT 37

OSBWNX3 CALJA

ID 08WNX3 CALJA PRELIMINARY; PRT; 52 AA.

AC 08WNX3

DT 01-MAR-2002 (T-EMBLrel. 20, Created)

DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)

DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)

DE Alpha-calcitonin-related protein (Fragment).

GN Name=alpha-CGRP;

OS Callitrix jacchus (Common marmoset).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;

OC Callitrichidae; Callitrich.

OC NCBI_TaxId=9483;

OX 1

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA Schindler M., Fischer E.,

RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF442153; AAL35592.1; -; Genomic DNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0005179; F:hormone activity; IEA.

DR InterPro; IPR000443; Amylin.

DR InterPro; IPR001693; Calcitonin-like.

DR pfam; PF00214; Calc CGRP IAPP; 1.

DR PRINTS; PR00817; CALCITONIN.

DR PRINTS; PR00818; ISLETAMYLID.

DR SMART; SM00113; CALCITONIN; 1.

DR PROSITE; PS00258; CALCITONIN; 1.

DR NON_TER 1

SQ SEQUENCE 52 AA; 5643 MW; 7C0A3ACE63CC4DB1 CRC64;

Query Match 41.6%; Score 84; DB 2; Length 52;

Best Local Similarity 50.0%; Pred. No. 0.00039;

Matches 20; Conservative 2; Mismatches 10; Indels 8; Gaps 2;

QY 2 CNTATCATQRIANFLVHS-----SNNFGPILPPTNVGSNTY 37

DB 8 CDTATCVTHRLAGLSRSGGVKDNF-----VPTNVGSEAF 43

RESULT 38

OS09YCY3 PAROL

ID 090YCY3 PAROL PRELIMINARY; PRT; 53 AA.

AC 090YCY3

DT 01-DEC-2001 (T-EMBLrel. 19, Created)

DT 01-DEC-2001 (T-EMBLrel. 19, Last sequence update)

DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)

DE Calcitonin gene-related peptide (Fragment).

GN Name=CT/CGRP;

OS Paralicthys olivaceus (Japanese flounder).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

OC Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes;

OC Pleuronectidae; Paralicthidae; Paralicthys.

OC NCBI_TaxId=8255;

OX 1

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA MEDLINE=21406117; PubMed=11514025; DOI=10.1016/S0196-9781(01)00484-3;

RA Suzuki N., Suzuki T., Kurokawa T.;

RT "Cloning of a calcitonin gene-related peptide from genomic DNA and its

RT mRNA expression in flounder, *Paralicthys olivaceus*,"

RU Peptide 22:1435-1438(2001).

DR EMBL; AB052782; BAB6411.1; -; Genomic DNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0005179; F:hormone activity; IEA.

DR InterPro; IPR000443; Amylin.

DR InterPro; IPR001693; Calcitonin-like.

DR pfam; PF00214; Calc CGRP IAPP; 1.

DR PRINTS; PR00817; CALCITONIN.

DR PRINTS; PR00818; ISLETAMYLID.

DR SMART; SM00113; CALCITONIN; 1.

DR PROSITE; PS00258; CALCITONIN; 1.

FT CHAIN 8 44 calcitonin gene-related peptide.

FT NON_TER 1 1

SQ SEQUENCE 53 AA; 5684 MW; 14C0191868A64CF4 CRC64;

Query Match 41.6%; Score 84; DB 2; Length 53;

Best Local Similarity 47.5%; Pred. No. 0.0004;

Matches 19; Conservative 4; Mismatches 9; Indels 8; Gaps 2;

QY 2 CNTATCATQRIANFLVHS-----SNNFGPILPPTNVGSNTY 37

DB 9 CNTSTCVTHRLADLSRSGGLGYNF-----VPTNVGAQAF 44

RESULT 39

OSCALCA HUMAN

ID CALCA HUMAN STANDARD; PRT; 128 AA.

AC P06881; Q93048; Q9UCP0;

DT 01-JAN-1988 (Rel. 06, Created)

DT 01-MAR-1989 (Rel. 10, Last sequence update)

DT 10-MAY-2005 (Rel. 47, Last annotation update)

DE Calcitonin gene-related peptide I precursor (CGRP-I) (Alpha-type CGRP).

GN Name=CALCA; Synonyms=CALC1;

OS Homo sapiens (Human)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae;

OC Homo.

OC NCBI_TaxId=9606;

OX 1

RN [1]

RP NUCLEOTIDE SEQUENCE [GENOMIC DNA].

RX MEDLINE=85166259; PubMed=3872459;

RA Jones V., Lin C.R., Kawashima E., Semon D., Swanson L.W.,

RA Mermod U.-D., Evans R.M., Rosenfeld M.G.;

RT "Alternative RNA processing events in human calcitonin/calcitonin

RT gene-related peptide gene expression,"

RL Proc. Natl. Acad. Sci. U.S.A. 82:1994-1998(1985).

RN [2]

RP NUCLEOTIDE SEQUENCE [GENOMIC DNA].

RX MEDLINE=89386053; PubMed=2571128;

RA Broad P.M., Symes A.J., Thakker R.V., Craig R.K.;

RA Nelkin B.D., Rosenfeld K.I., de Bustros A., Leong S.S., Roos B.A.,

RA Baylin S.B.;

RT "Structure and expression of a gene encoding human calcitonin and

RT calcitonin gene related peptide,"

RL Biochem. Biophys. Res. Commun. 123:648-655(1984).

RN [4]

RP NUCLEOTIDE SEQUENCE [MRNA] OF 49-128.

RX MEDLINE=85230541; PubMed=2400883;

RA Edbrooke M.R., Parker D., Mcvey J.H., Riley J.H., Soranson G.D.,

RA Pettenegill O.S., Craig R.K.;

RT "Expression of the human calcitonin/CGRP gene in lung and thyroid

RT carcinoma,"

RL EMO J. 4:715-724(1985).

RN [5]

RP NUCLEOTIDE SEQUENCE [GENOMIC DNA] OF 77-128.

RC TISSUE=Thyroid carcinoma;

RX MEDLINE=84240176; PubMed=6610687;

RA Stenbergh P.H., Hoppener J.W., Zandberg J., de Ven W.J., Jansz H.S.,

RA Lips C.J.;

RT "Calcitonin gene related peptide coding sequence is conserved in the

RT human genome and is expressed in medullary thyroid carcinoma,"

RL J. Clin. Endocrinol. Metab. 59:358-360(1984).

RN [6]

RP NUCLEOTIDE SEQUENCE [GENOMIC DNA] OF 77-128.

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CC      IsoId=099JU0-1; Sequence=Displayed;
CC      Name=Calcitonin;
CC      IsoId=P70160-1; Sequence=External;
CC      -1- SIMILARITY: Belongs to the calcitonin family.
CC      -----
CC      This Swiss-Prot entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use as long as its content is in no way modified and this statement is not
CC      removed.
CC      -----
DR      EMBL, AF330212; AAK06841.1; -; mRNA.
DR      EMBL, AF325522; AAK18181.1; -; Genomic DNA.
DR      EMBL, AF325521; AAK18181.1; JOINED; Genomic DNA.
DR      EMBL, BC028771; AAK28771.1; -; mRNA.
DR      Ensembl; ENSMUSG0000030669; Mus musculus.
DR      MGI; MGI:2151253; Calca.
DR      GO; GO:0005615; C:extracellular space; TAS.
DR      GO; GO:0005623; C:intracellular; IDA.
DR      GO; GO:0001633; F:calcitonin gene-related polypeptide recepto. .; IDA.
DR      GO; GO:0005102; F:receptor binding; IDA.
DR      GO; GO:0007631; F:feeding behavior; IDA.
DR      GO; GO:0006954; P:inflammatory response; IDA.
DR      GO; GO:0045986; P:negative regulation of smooth muscle contra. .; IDA.
DR      GO; GO:0007218; P:neuropeptide signaling pathway; IDA.
DR      InterPro; IPR004443; Amylin.
DR      InterPro; IPR001693; Calcitonin-like.
DR      InterPro; IPR002163; Calcitonin_B.
DR      Pfam; PF00214; Calc_CGRP_IAP; 1.
DR      PRINTS; PR00817; CALCITONINB.
DR      PRINTS; PR00818; ISLETAMYLOID.
DR      SMART; SM00113; CALCITONIN; 1.
DR      PROSITE; PS00258; CALCITONIN; 1.
DR      KMW Alternative splicing; Amidation; Cleavage on pair of basic residues;
DR      Hormone; Signal.
DR      FT SIGNAL 1 25 Potential.
DR      FT PROPEP 26 80 By similarity.
DR      FT PEPTIDE 83 119 Calcitonin gene-related peptide 1.
DR      FT PROPEP 125 128 By similarity.
DR      FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide
DR      FT DISULFID 84 89 group).
DR      FT SEQUENCE 128 AA; 14065 MW; 83BB0E36CB4239E CRC64;

Query Match 42.1%; Score 85; DB 1; Length 128;
Best Local Similarity 50.0%; Pred. No. 0.0008;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

Oy      2 CNTATCATQRLANFLVHSSNNRGPILPTNVGSNTY 37
Db      84 CNTATCTHRLAGLIRSGGVVKNFVPTNVSSEAF 119

RESULT 36
CALCA RAT STANDARD; PRT; 128 AA.
AC      P01256;
DT      21-JUL-1986 (Rel. 01, Created)
DT      01-APR-1988 (Rel. 07, Last sequence update)
DT      10-MAY-2005 (Rel. 47, Last annotation update)
DE      Calcitonin gene-related peptide I precursor (CGRP-I) (Alpha-type
DE      CGRP).
DE      Name=Calca; Synonyms=Calc;
OS      Rattus norvegicus (Rat).
OC      Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC      Muricidae; Muridae; Murinae; Rattus.
OX      NCBI_TaxID=10116;
RN      [1]
RP      NUCLEOTIDE SEQUENCE.
RX      MEDLINE=85166259; PubMed=3872459;
RA      Jones V., Lin C.R., Kawashima E., Semon D., Swanson L.W.,
RA      Mermod J.-J., Evans R.M., Rosenfeld M.G.,

```

```

RT      "Alternative RNA processing events in human calcitonin/calcitonin
RT      gene-related peptide gene expression.";
RT      Proc. Natl. Acad. Sci. U.S.A. 82:1994-1998(1985).
RN      [2]
RN      NUCLEOTIDE SEQUENCE.
RX      MEDLINE=82220111; PubMed=6283379;
RA      Amara S.G., Jones V., Rosenfeld M.G., Ong E.S., Evans R.M.;
RT      "Alternative RNA processing in calcitonin gene expression generates
RT      mRNAs encoding different polypeptide products.";
RT      Nature 298:240-244(1982).
RN      [3]
RN      NUCLEOTIDE SEQUENCE.
RX      MEDLINE=85300490; PubMed=2994212;
RA      Amara S.G., Arria J.L., Leff S.E., Swanson L.W., Evans R.M.,
RA      Rosenfeld M.G.;
RT      "Expression in brain of a messenger RNA encoding a novel neuropeptide
RT      homologous to calcitonin gene-related peptide.";
RT      Science 229:1094-1097(1985).
CC      -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC      vessels including the coronary, cerebral and systemic vasculature.
CC      Its abundance in the CNS also points toward a neurotransmitter or
CC      neuromodulator role.
CC      -1- SUBCELLULAR LOCATION: Secreted.
CC      -1- ALTERNATIVE PRODUCTS:
CC      Name=Calcitonin-gene related peptide 1;
CC      IsoId=P01256-1; Sequence=Displayed;
CC      Name=Calcitonin;
CC      IsoId=P01257-1; Sequence=External;
CC      -1- SIMILARITY: Belongs to the calcitonin family.
CC      -----
CC      This Swiss-Prot entry is copyright. It is produced through a collaboration
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CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use as long as its content is in no way modified and this statement is not
CC      removed.
CC      -----
DR      EMBL; L29188; AAB59682.1; -; Genomic DNA.
DR      EMBL; L00109; AAB59682.1; JOINED; Genomic DNA.
DR      EMBL; L00110; AAB59682.1; JOINED; Genomic DNA.
DR      EMBL; V01231; CAA24541.1; -; mRNA.
DR      EMBL; M11597; AAA40847.1; -; mRNA.
DR      PIR; A01524; TCRR.
DR      PIR; B44173; B44173.
DR      InterPro; IPR000443; Amylin.
DR      InterPro; IPR001693; Calcitonin-like.
DR      InterPro; IPR002163; Calcitonin_B.
DR      Pfam; PF00214; Calc_CGRP_IAP; 1.
DR      PRINTS; PR00817; CALCITONINB.
DR      PRINTS; PR00818; ISLETAMYLOID.
DR      SMART; SM00113; CALCITONIN; 1.
DR      PROSITE; PS00258; CALCITONIN; 1.
DR      KMW Alternative splicing; Amidation; Cleavage on pair of basic residues;
DR      Hormone; Signal.
DR      FT SIGNAL 1 25
DR      FT PROPEP 26 80
DR      FT PEPTIDE 83 119 Calcitonin gene-related peptide 1.
DR      FT PROPEP 125 128
DR      FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide
DR      FT DISULFID 84 89 group).
DR      FT CONFLICT 40 40 Missing (in Ref. 2 and 3).
DR      FT CONFLICT 51 51 Missing (in Ref. 2 and 3).
DR      FT CONFLICT 70 70 Q -> E60 (in Ref. 2 and 3).
DR      FT CONFLICT 99 99 S -> R (in Ref. 3).
DR      FT SEQUENCE 128 AA; 13948 MW; 75D14869C17078D3 CRC64;

Query Match 42.1%; Score 85; DB 1; Length 128;
Best Local Similarity 50.0%; Pred. No. 0.0008;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

Oy      2 CNTATCATQRLANFLVHSSNNRGPILPTNVGSNTY 37

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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthopterygia; Acanthopterygii; Perciformes; Tetraodontiformes;
 OC Tetraodontidae; Tetraodontidae; Tetraodon.
 OC NCBI_TaxId=99863;
 [1]
 RP NUCLEOTIDE SEQUENCE.
 RA Jallion O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
 RA Maucell E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
 RA Micaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
 RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
 RA Anthouard V., Jubin C., Castell J.V., Katinka M., Vacherie B.,
 RA Biemont C., Skalli Z., Catolico L., Poulain J., De Bernardis V.,
 RA Craud C., Duprat S., Broctier P., Coutanceau J.P., Gouzy J.,
 RA Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,
 RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
 RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
 RA Laudet V., Schachter V., Querier F., Saurin W., Scarpelli C.,
 RA Wincker P., Lander B.S., Weissenbach J., Roest Crolius H.,
 RA "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
 RT the early vertebrate proto-karyotype."
 RL Nature 431:946-957(2004).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RG Genoscope, Whitehead Institute Centre for Genome Research;
 RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
 CC -1- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 CC EMBL; CAAB01002800; CAP87593.1; -; Genomic_DNA.
 FT NON_TER 1 1
 FT 44 44
 FT NON_TER 44 44
 SQ SEQUENCE 44 AA; 4556 MW; EE24CED223FAE96 CRC64;
 Query Match 42.1%; Score 85; DB 2; Length 44;
 Best Local Similarity 54.1%; Pred. No. 0.00027;
 Matches 20; Conservative 3; Mismatches 6; Indels 8; Gaps 2;
 QY 2 CNTATCATGRLANFLVHSS---NNFGPILPPTNVGS 34
 Db 10 CNTATCCTHRLADFLSRSGGLGYSNF---VPTNVGA 42
 AC 066VCI1;
 DT 25-OCT-2004 (T-EMBLrel. 28, Created)
 DT 25-OCT-2004 (T-EMBLrel. 28, Last sequence update)
 DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)
 DE Alpha-calactonin gene-related peptide (Fragment).
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Rattus.
 OC NCBI_TaxId=10116;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=Mistar;
 RA GerritKagostita I., Garcia del Cano G., Canudas J., Saraa M.,
 RA Martinez-Millan L.,
 RT "Evidence for expression of calcitonin gene-related peptide in
 RT collicular neurons during postnatal development."
 RT Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
 DR EMBL; A7702025; AA007931.1; -; mRNA.
 DR GO; GO:0005576; Cerebellar region; IEA.
 DR GO; GO:0005179; Phormone activity; IEA.
 DR InterPro; IPR001693; Calcitonin-like.
 DR Pfam; PFO0214; Calc CGRP IAPP; I.
 DR PRINTS; PRO0817; CALCITONINB.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.

FT NON_TER 1 1
 SQ SEQUENCE 50 AA; 5402 MW; 295BEFF036BCF7FA CRC64;
 Query Match 42.1%; Score 85; DB 2; Length 50;
 Best Local Similarity 50.0%; Pred. No. 0.00027;
 Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;
 QY 2 CNTATCATGRLANFLVHSSNNFGPILPPTNVGSNTY 37
 Db 6 CNTATCCTHRLADFLSRSGGLGYSNFVNDPPTNVGSBAF 41
 AC 099JUN0;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide I precursor (CGRP-I) (Alpha-type
 DE CGRP).
 DE Name=Calca; Synonyms=Calc;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Murinae; Mus.
 OC NCBI_TaxId=10090;
 RP NUCLEOTIDE SEQUENCE.
 RA Saraa M., Catalan J., Aramayo J., Sorribas V.,
 RA "Mouse CGRP precursor is highly homologous to that of the rat."
 RT Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=129/Sv;
 RX MEDLINE=21604266; PubMed=11761712;
 RA Thomas P.M., Nasonkin I., Zhang H., Gagel R.F., Cote G.J.,
 RT "Structure of the mouse calcitonin/calcitonin gene-related peptide
 RT alpha and beta genes."
 RL DNA Seq. 12:131-135(2001).
 RN [3]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
 RC STRAIN=C57BL/6J; TISSUE=Mammary gland;
 RX MEDLINE=2388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Ushed T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millaby S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunnarsson P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hultk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Hulton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smalhe D.E.,
 RA Scherch A., Schein J.E., Jones S.J.M., Maita M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 CC vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role. It also elevates platelet cAMP (by
 CC similarity).
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=Calcitonin-gene related peptide I;

AC OAS173;
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
 DE Chromosome 5 SCAFI4581, whole genome shotgun sequence.
 DE (Fragment).
 GN ORFNames=GSTEN00017812001;
 OS Tetradon nigroviridis (Green puffer).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percormorpha; Tetraodontiformes;
 OC Tetraodontidae; Tetraodontidae; Tetradon.
 OC NCBI_TaxID=99883;
 RN [1]
 RP NOCLEOTIDE SEQUENCE.
 RA Jaillon O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
 RA Mucelli E., Bouneau L., Fischer C., Ozouf-Costraz C., Bernot A.,
 RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
 RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
 RA Anthonard V., Jubin C., Castelil V., Katinka M., Vacherie B.,
 RA Bleumont C., Skallil Z., Cattoilco L., Poulin J., De Berardinis V.,
 RA Cruaud C., Duprat S., Bottier P., Coutanceau J.P., Gouzy J.,
 RA Parra G., Lardier G., Chapple C., McKernan K.J., McMan P., Bosak S.,
 RA Kellis M., Wolff J.N., Guipio R., Zody M.C., Mesirov J.,
 RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
 RA Lauder V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
 RA Wincker P., Lander E.S., Weissenbach J., Roest Crolius H.;
 RT "Genome duplication in the teleost fish Tetradon nigroviridis reveals
 the early Vertebrate proco-karyotype.";
 RL Nature 431:946-957(2004).
 RU [2]
 RP NOCLEOTIDE SEQUENCE.
 RG Genoscope, Whitehead Institute Centre for Genome Research;
 RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
 CC -1- CAUTION: The sequence shown here is derived from an
 EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; CA001014581; CAP9659.1; -, Genomic_DNA.
 FT NON TER 1 1
 FT 51 51
 SQ SEQUENCE 51 AA; 5551 MW; 45D08B150FC9FEE CRC64;
 Query Match 43.6%; Score 88; DB 2; Length 51;
 Best Local Similarity 50.0%; Pred. No. 0.00011;
 Matches 20; Conservative 4; Mismatches 8; Indels 8; Gaps 2;
 QY 2 CMTATCATORLANFLVHSS---NNGPILPPNNGSNTY 37
 DB 10 CMTATCVRHLADPLSRSGSLGYSNF---VPTNVAQAF 45
 RESULT 30
 CALCB HUMAN STANDARD; PRT; 127 AA.
 AC P10092; O9UCN9;
 DT 01-MAR-1989 (Rel. 10, Created)
 DT 01-MAR-1989 (Rel. 10, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide II precursor (CGRP-II) (Beta-type
 CGRP)
 GN Name=CALCB; Synonyms=CALC2;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae;
 OC Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP NOCLEOTIDE SEQUENCE.
 RX MEDLINE=87105923; PubMed=3492393; DOI=10.1016/0014-5793(86)81091-2;
 RA Steenbergh P.H., Hoepfener J.W.M., Zandberg J., Vissers A.,
 RA Lips C.J.M., Jansz H.S.;
 RT "Structure and expression of the human calcitonin/CGRP genes.";
 RL FEBS Lett. 209:97-103(1986).

RN [2]
 RP NOCLEOTIDE SEQUENCE OF 56-127.
 RX MEDLINE=85180007; PubMed=2985435; DOI=10.1016/0014-5793(85)80820-6;
 RA Steenbergh P.H., Hoepfener J.W.M., Zandberg J., Lips C.J.M.,
 RA Jansz H.S.;
 RT "A second human calcitonin/CGRP gene.";
 RL FEBS Lett. 183:403-407(1985).
 RN [3]
 RP PARTIAL PROTEIN SEQUENCE OF 82-108.
 RX MEDLINE=87109142; PubMed=3492492;
 RA Petermann J.B., Born W., Chang J.Y., Fischer J.A.;
 RT "Identification of a novel calcitonin gene-related peptide, and partial amino
 acid sequence in the spinal cord.";
 RL J. Biol. Chem. 262:542-545(1987).
 RN [4]
 RP PROTEIN SEQUENCE OF 82-86 AND 104-117.
 RC TISSUE=Spinal cord;
 RX MEDLINE=90211348; PubMed=2322288;
 RA Wimalawansa S.J., Morris H.R., Etienne A., Blench I., Panico M.,
 RA McIntyre I.;
 RT "Isolation, purification and characterization of beta-hCGRP from human
 spinal cord.";
 RL Biochem. Biophys. Res. Commun. 167:993-1000(1990).
 RN [5]
 RP PROTEIN SEQUENCE OF 82-104.
 RC TISSUE=Pheochromocytoma;
 RX MEDLINE=92287083; PubMed=1318039;
 RA Kitamura K., Kangawa K., Kawamoto M., Ichiki Y., Matsuo H., Eto T.;
 RT "Isolation and characterization of peptides which act on rat
 platelets, from a pheochromocytoma.";
 RL Biochem. Biophys. Res. Commun. 185:134-141(1992).
 CC -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the calcitonin family.
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 DR EMBL; X04855; CAC05295.1; -, Genomic_DNA.
 DR EMBL; X04857; CAC05295.1; JOINED; Genomic_DNA.
 DR EMBL; X04861; CAC05295.1; JOINED; Genomic_DNA.
 DR EMBL; X02404; CAA26249.1; -, mRNA.
 DR PIR; A25864; A25864.
 DR PIR; I37232; I37232.
 DR Ensembl; ENSG00000175868; Homo sapiens.
 DR HGN; HGNC:1438; CALCB.
 DR H-InvDB; HIX009469; -.
 DR MIM; 114160; -.
 DR GO; GO:0005625; C:soluble fraction; TAS.
 DR GO; GO:0005184; P:neuropeptide hormone activity; TAS.
 DR GO; GO:0006874; P:calcium ion homeostasis; TAS.
 DR GO; GO:0007165; P:signal transduction; TAS.
 DR InterPro; IPR001693; Calcitonin-B.
 DR InterPro; IPR002163; Calcitonin-B.
 DR Pfam; PF00214; Calc CGRP IAPP; I.
 DR PRINTS; PR00817; CALCITONIN.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 KW Amidation; Cleavage on pair of basic residues;
 KW direct protein sequencing; Hormone; Signal.
 FT SIGNAL 1 25 Potential.
 FT PROPEP 26 79
 FT PEPTIDE 82 118 Calcitonin gene-related peptide II.
 FT PROPEP 124 127
 FT MOD_RES 118 118 Phenylalanine amide (G-119 provides amide
 group).

RP NUCLEOTIDE SEQUENCE.
 RG Genoscope; Whitehead Institute Centre for Genome Research;
 RL Submitted (Feb-2004) to the EMBL/GenBank/DBJ databases.
 CC -! CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; CAAB01014769; CAG05615.1; -; Genomic_DNA.
 FT NON_TER 184
 SQ SEQUENCE 184 AA; 20107 MW; 851PB9A69FD16F29 CRC64;

Query Match 44.1%; Score 89; DB 2; Length 184;
 Best Local Similarity 50.0%; Pred. No. 0.00024;
 Matches 18; Conservative 3; Mismatches 15; Indels 0; Gaps 0;

QY 2 CNTATCATGRLANFLVHSSNNFGPIIPPTNVGSNTY 37
 ||||| ||||| ||||| ||||| :
 DB 140 CNTATCTVTHRLADFLRSQGMGNSNFVPTNVGAKAF 175

RESULT 27
 ID 092164_ONCSF PRELIMINARY; PRT; 56 AA.
 AC 092164;
 DT 01-NOV-1996 (TREMBlrel. 01, Created)
 DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)
 DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
 DE Calcitonin gene-related peptide (Fragment).
 GN Name=CGRP;
 OS Oncorhynchus sp. (Salmon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
 OX NCBI_TaxID=8025;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=92344325; PubMed=1637123;
 RA Janz H.S., Zandberg J.;
 RT "Identification and partial characterization of the salmon
 RL calcitonin/CGRP gene by polymerase chain reaction.";
 RL Ann. N. Y. Acad. Sci. 657:63-69(1992).
 DR EMBL; S40497; AAB22593.1; -; Genomic DNA.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0005179; F:hormone activity; IEA.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc_CGRP_IAPP; I.
 DR PRINTS; PR00817; CALCITONINB.
 DR SMART; SMO0113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 FT NON_TER 1
 SQ SEQUENCE 56 AA; 6019 MW; C7852837BAF74314 CRC64;

Query Match 44.1%; Score 89; DB 2; Length 56;
 Best Local Similarity 50.0%; Pred. No. 8.4e-05;
 Matches 18; Conservative 3; Mismatches 15; Indels 0; Gaps 0;

QY 2 CNTATCATGRLANFLVHSSNNFGPIIPPTNVGSNTY 37
 ||||| ||||| ||||| ||||| :
 DB 8 CNTATCTVTHRLADFLRSQGMGNSNFVPTNVGAKAF 43

RESULT 28
 ID 092164_ONCSF PRELIMINARY; PRT; 128 AA.
 AC 092164;
 DT 28-FEB-2003 (rel. 41, Created)
 DT 28-FEB-2003 (rel. 41, Last sequence update)
 DT 10-MAY-2005 (rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide I precursor (CGRP-1) (Alpha-type
 DE CGRP).
 GN Name=CALCA; Synonyms=CALC, CCALCI;
 GN Canis familiaris (Dog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

CC Mammalia; Euteria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
 CC Canis.
 OX NCBI_TaxID=9615;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=20424786; PubMed=10967131; DOI=10.1007/s003350010157;
 RA Wende S., Krenn A., Breen M., Brunnberg L., Brenig B.;
 RT "Molecular analysis and chromosomal assignment of the canine CALC-
 RT I/alpha-CGRP gene.";
 RL Mamm. Genome 11:736-740(2000).
 RN [2]
 RP PROTEIN SEQUENCE OF 26-50.
 RC TISSUE=Thyroid;
 RX MEDLINE=92100867; PubMed=1758974; DOI=10.1016/0167-0115(91)90082-R;
 RA Mol J.A., Kwant M.M., Arnold I.C.J., Hazewinkel H.A.W.;
 RT "Elucidation of the sequence of canine (pro)-calcitonin. A molecular
 RT biological and protein chemical approach.";
 RL Regul. Pept. 35:189-195(1991).
 CC -! FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 CC vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role. It also elevates platelet cAMP (By
 CC similarity).
 CC -! SUBCELLULAR LOCATION: Secreted.
 CC -! ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=Calcitonin-gene related peptide I;
 CC IsoId=Q9MYV1-1; Sequence=Displayed;
 CC Name=Calcitonin;
 CC IsoId=P41547-1; Sequence=External;
 CC -! SIMILARITY: Belongs to the calcitonin family.

 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.

 CC EMBL; AJ271090; CAB97487.1; -; Genomic DNA.
 DR Ensembl; ENSCAF00000008562; Canis familiaris.
 DR InterPro; IPR000443; Amy1in.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc_CGRP_IAPP; I.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYLOID.
 DR SMART; SMO0113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 KW Alternative splicing; Amidation; Cleavage on pair of basic residues;
 KW Direct protein sequencing; Hormone; Signal.
 KM SIGNAL 1 25
 FT PROPEP 26 80 By similarity.
 FT PEPTIDE 83 119 Calcitonin gene-related peptide I.
 FT PROPEP 125 128 By similarity.
 FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide
 FT DISULFID 84 89 group) (By similarity).
 FT CONFLICT 45 45 E -> K (in Ref. 2).
 FT CONFLICT 49 49 L -> N (in Ref. 2).
 SQ SEQUENCE 128 AA; 13874 MW; 72331258DB8CB564 CRC64;

Query Match 44.1%; Score 89; DB 1; Length 128;
 Best Local Similarity 52.5%; Pred. No. 0.00022;
 Matches 21; Conservative 1; Mismatches 10; Indels 8; Gaps 2;

QY 2 CNTATCATGRLANFLVHSSNNFGPIIPPTNVGSNTY 37
 ||||| ||||| ||||| ||||| :
 DB 84 CNTATCTVTHRLADFLRSQGMGNSNFVPTNVGSEAF 119

RESULT 29
 ID 045173_TETNG PRELIMINARY; PRT; 51 AA.

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DR GO:0005179; F: hormone activity; IEA.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR Pfam; PF00214; Calc CGRP IAPP; 1.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
FT NON_TER 1 1
FT NON_TER 25 25
SQ SEQUENCE 25 AA; 2723 MW; 911B2C02FB677BAF CRC64;

Query Match 45.0%; Score 91; DB 2; Length 25;
Best Local Similarity 72.0%; Pred. No. 1.8e-05;
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 9 TORLANFLVHSSNNFGPIIPPTNVG 33
Db 1 TORLADFLVRSNNMGAFISPTNVG 25
|||||:|||||:|||||:|||||:|||||:
|||||:|||||:|||||:|||||:|||||:

RESULT 24
ID P79814.ONCGO PRELIMINARY; PRT; 52 AA.
AC P79814;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DE 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Calcitonin gene-related peptide 4 (Fragment).
OC Oncorhynchus gorbuscha (Pink salmon) (Humpback salmon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxId=8017;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=97057244; Pubmed=8901583; DOI=10.1073/pnas.93.22.12344;
RA Janer H., Martel K., Zandberg U., Milhaud G., Benson A.A.,
RA Julienne A., Moukhtar M.S., Cressent M.;
RT "Identification of a new calcitonin gene in the salmon Oncorhynchus
RT gorbuscha."
RL Proc. Natl. Acad. Sci. U.S.A. 93:12344-12348(1996).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RA Cressent M.D.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
DR EMBL; U71287; AAB38533.1; -; mRNA.
DR GO; GO:0005576; Extracellular region; IEA.
DR GO; GO:0005179; F: hormone activity; IEA.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc CGRP IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
FT CHAIN <1 4 N-terminal peptide.
FT CHAIN 7 43 calcitonin gene-related peptide 4.
FT CHAIN 49 52 carboxy terminal peptide.
FT NON_TER 1 1
SQ SEQUENCE 52 AA; 5700 MW; 3FAC471D2A682321 CRC64;

Query Match 44.6%; Score 90; DB 2; Length 52;
Best Local Similarity 50.0%; Pred. No. 5.6e-05;
Matches 18; Conservative 3; Mismatches 15; Indels 0; Gaps 0;

QY 2 CNTATCATORLANFLVHSSNNFGPIIPPTNVGSNTY 37
Db 8 CNTATCVTRHLADFLRSQGMGNSNFVPTNVGAKAF 43
|||||:|||||:|||||:|||||:|||||:
|||||:|||||:|||||:|||||:|||||:

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DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Calcitonin gene related peptide.
GN Name-cgfp;
OS Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Takifugu.
OX NCBI_TaxId=31033;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Clark M.S.;
RL "Structure and expression of fugu calcitonin gene."
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ309015; GAC81277.1; -; Genomic DNA.
DR Ensembl; SINEFUG0000012598; Fugu rubripes.
DR GO; GO:0005576; Extracellular region; IEA.
DR GO; GO:0005179; F: hormone activity; IEA.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc CGRP IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
FT CHAIN 81 117
SQ SEQUENCE 126 AA; 13863 MW; 31CB14A01B2CD57 CRC64;

Query Match 44.6%; Score 90; DB 2; Length 126;
Best Local Similarity 50.0%; Pred. No. 0.00015;
Matches 18; Conservative 3; Mismatches 15; Indels 0; Gaps 0;

QY 2 CNTATCATORLANFLVHSSNNFGPIIPPTNVGSNTY 37
Db 82 CNTATCVTRHLADFLRSQGMGNSNFVPTNVGAKAF 117
|||||:|||||:|||||:|||||:|||||:
|||||:|||||:|||||:|||||:|||||:

RESULT 26
ID Q4S167.TEING PRELIMINARY; PRT; 184 AA.
AC Q4S167;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Chromosome 13 SCAP14769, whole genome shotgun sequence.
DE (Fragment).
GN ORFNames=GSTENG0025692001;
OS Tetraodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Tetraodon.
OX NCBI_TaxId=99883;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Jallion O., Aury J.M., Brunet F., Petit J.L., Strange-Thomann N.,
RA Mauceli E., Bouneau L., Fischer C., Ozouf-Coatac C., Bernot A.,
RA Nicaud S., Jaffe D., Fleher S., Lutfalla G., Dosset C., Segurens B.,
RA David C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,
RA Blemont C., Skalli Z., Catolico L., Poulin J., De Bernardis V.,
RA Cruaud C., Duprat S., Brottier P., Couranceau J.P., Gouzy J.,
RA Parra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,
RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
RA Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
RA Winkler P., Lander E.S., Weissbach J., Roest Crolius H.;
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
RT the early vertebrate proto-karyotype."
RL Nature 431:946-957(2004).
RN [2]

```

RP NUCLEOTIDE SEQUENCE, PROTEIN SEQUENCE OF 70-106, CHARACTERIZATION, AND
RP MASS SPECTROMETRY.
RC TISSUE=SKIN;
RX MEDLINE=20148807; PubMed=10681586; DOI=10.1074/jbc.275.8.5934;
RA Seon A.A., Pierre T.N., Redeker V., Lacombe C., Delfour A.,
RA Nicolson P., Aniche M.,
RT "Isolation, structure, synthesis, and activity of a new member of the
RT calcitonin gene-related peptide family from frog skin and molecular
RT cloning of its precursor."
RL J. Biol. Chem. 275:5934-5940(2000).
CC -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role (By similarity).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Skin, intestine and brain.
CC -1- MASS SPECTROMETRY: MW=3806.77; METHOD=MALDI; RANGE=70-106;
CC NOTE=Ref.1.
CC -1- SIMILARITY: Belongs to the calcitonin family.
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC -----
DR EMBL, Y18495; CAB76385.1; -; mRNA.
DR InterPro: IPR000443; Amylin.
DR InterPro: IPR001693; Calcitonin-like.
DR InterPro: IPR002163; Calcitonin B.
DR Pfam: PF00214; Calc CGRP IAPP; 1.
DR PRINTS: PR00817; CALCITONINB.
DR PRINTS: PR00818; ISLETAMYLID.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; 1.
KW Amidation; Cleavage on pair of basic residues;
KW direct protein sequencing; Hormone; Signal.
FT SIGNAL 1 25
FT PROPEP 26 69
FT CHAIN 70 106
FT PROPEP 107 115
FT MOD_RES 106 106
FT DISULFID 71 76
FT SEQUENCE 115 AA; 12438 MW; A53D1125CA53D31 CRC64;
SQ
Query Match 46.5%; Score 94; DB 1; Length 115;
Best Local Similarity 50.0%; Pred. No. 3.8e-05;
Matches 18; Conservative 7; Mismatches 11; Indels 0; Gaps 0;
QY 2 CNTATCATQRLANFLVHSSNNFGPILPTNVGSNTY 37
DB 71 CDTATCATQRLADFLRSRGIGSGKFPVTVDSANF 106
RESULT 22
Q6DGJ9 BRARE
ID Q6DGJ9 BRARE PRELIMINARY; PRT; 126 AA.
AC Q6DGJ9;
DT 25-OCT-2004 (TREMBLrel. 28, Created)
DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)
DE Zgc:92886.
GN ORFNames=zgc:92886;
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_Taxid=7955;
RN (1)
RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Ditchenko L., Murnina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Toshimuki S., Carninci P., Prange C.,
RA Rasm S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Roach S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulik S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL, BC076343; AAH76343.1; -; mRNA.
DR ZFIN; ZDB-GENE-040718-173; zgc:92886.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; P:hormone activity; IEA.
DR InterPro: IPR000443; Amylin.
DR InterPro: IPR001693; Calcitonin-like.
DR InterPro: IPR002163; Calcitonin B.
DR Pfam: PF00214; Calc CGRP IAPP; 1.
DR PRINTS: PR00817; CALCITONINB.
DR PRINTS: PR00818; ISLETAMYLID.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; 1.
DR SEQUENCE 126 AA; 13957 MW; 9A9399E3683D7B16 CRC64;
SQ
Query Match 45.5%; Score 92; DB 2; Length 126;
Best Local Similarity 52.8%; Pred. No. 8e-05;
Matches 19; Conservative 2; Mismatches 15; Indels 0; Gaps 0;
QY 2 CNTATCATQRLANFLVHSSNNFGPILPTNVGSNTY 37
DB 82 CNTATCVTHRLADFLRSRGIGSGKFPVTVDSQAF 117
RESULT 23
Q9BBE1 MACRU
ID Q9BBE1 MACRU PRELIMINARY; PRT; 25 AA.
AC Q9BBE1;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)
DE Islet amyloid polypeptide (Fragment).
GN Name=lapp;
OS Macropus rufus (Red kangaroo) (Megalala rufa).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus.
OX NCBI_Taxid=9521;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RA van Dijk M.A.M., de Jong W.W.;
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RA van Dijk M.A.;
RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL, AJ268813; CAC28526.1; -; Genomic DNA.
DR GO; GO:0005576; C:extracellular region; IEA.

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RC TISSUE=Brain, and Intestine;
RX MEDLINE=93324452; PubMed=833553; DOI=10.1016/0196-9781(93)90148-A;
RA Conlon J.M., Tonon M.-C., Vaudry H.;
RT "Isolation and structural characterization of calcitonin gene-related
RL peptide from the brain and intestine of the frog, Rana ridibunda.";
RL PubMed 14:581-586(1993).
CC -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -1- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR InterPro: IPR001693; Calcitonin-like.
DR InterPro: IPR002163; Calcitonin_B.
DR Pfam: PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS: PR00817; CALCITONINB.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; 1.
DR AMIDATION: Direct protein sequencing; Hormone.
KW MOD_RES 37 Phenylalanine amide.
FT DISUFID 2 By similarity.
SQ SEQUENCE 37 AA; 3887 MW; 0EFEE3AD2745EBDE CRC64;

Query Match 47.5%; Score 96; DB 1; Length 37;
Best Local Similarity 55.0%; Pred. No. 5.4e-06;
Matches 22; Conservative 2; Mismatches 8; Indels 8; Gaps 2;

QY 2 CNTATCATGRLANFLVHS---SNNFGPILPPTNGSNTY 37
2 CNTATCVTHRIADFLRSQGVGNKF---VPTNGSKAF 37

RESULT 20
ID CALCA CHICK STANDARD; PRT; 125 AA.
AC P10286;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide precursor (CGRP).
GN Name=CALCA; Synonyms=CALC;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=88030046; PubMed=3666142; DOI=10.1016/0014-5793(87)80510-0;
RA Minvielle S., Cressent M., Delhaye M.C., Segond N., Milhaud G.,
RA Jullienne A., Mouttar M.S., Laemole F.;
RT "Sequence and expression of the chicken calcitonin gene.";
RL FEBS Lett. 223:63-68(1987).
RN (2)
RP NUCLEOTIDE SEQUENCE OF 12-73.
RX MEDLINE=86030240; PubMed=4054101;
RA Laemole F., Jullienne A., Day F., Minvielle S., Milhaud G.,
RA Mouttar M.S.;
RT "Cloning and the nucleotide sequence of chicken calcitonin mRNA:
RT direct evidence for the expression of a lower vertebrate calcitonin-
RL like gene in man and rat.";
RL EMBO J. 4:2603-2607(1985).
RN (3)
RP NUCLEOTIDE SEQUENCE OF 74-125.
RX MEDLINE=86248126; PubMed=3487468; DOI=10.1016/0014-5793(86)81425-9;
RA Minvielle S., Cressent M., Laemole F., Jullienne A., Milhaud G.,
RA Mouttar M.S.;

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RT "Isolation and partial characterization of the calcitonin gene in a
RT lower vertebrate. Predicted structure of avian calcitonin gene-related
RL peptide.";
RL FEBS Lett. 203:7-10(1986).
CC -1- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=Calcitonin-gene related peptide;
CC IsoId=P10286-1; Sequence=displayed;
CC Name=Calcitonin;
CC IsoId=P07660-1; Sequence=External;
CC -1- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL: X06311; CAA29630.1; - Genomic DNA.
DR EMBL: X06312; -; NOT ANNOTATED CDS; Genomic DNA.
DR EMBL: X06314; CAA29633.1; -; Genomic DNA.
DR EMBL: X03012; CAA26796.1; ALT TERM; mRNA.
DR EMBL: D00007; BAA00006.1; -; Genomic DNA.
DR PIR: S00154; TCGRP.
DR EMBL: ENSGALG0000006054; Gallus gallus.
DR InterPro: IPR000443; Amylin.
DR InterPro: IPR001693; Calcitonin-like.
DR InterPro: IPR002163; Calcitonin_B.
DR Pfam: PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS: PR00817; CALCITONINB.
DR PRINTS: PR00818; ISLETAMYLID.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; 1.
DR KW Alternative splicing; Amidation; Cleavage on pair of basic residues;
KW Hormone; Signal.
FT SIGNAL 1 25 Potential.
FT PROPEP 26 77 Calcitonin gene-related peptide.
FT PEPTIDE 80 116
FT PROPEP 122 125
FT MOD_RES 116 116 Phenylalanine amide (G-117 provides amide
FT group).
FT DISUFID 81 86 By similarity.
FT CONFLICT 56 56 D -> E (in Ref. 2).
SQ SEQUENCE 125 AA; 13729 MW; E864A2C9AC11F80 CRC64;

Query Match 47.5%; Score 96; DB 1; Length 125;
Best Local Similarity 55.0%; Pred. No. 2.2e-05;
Matches 22; Conservative 2; Mismatches 8; Indels 8; Gaps 2;

QY 2 CNTATCATGRLANFLVHS---SNNFGPILPPTNGSNTY 37
81 CNTATCVTHRIADFLRSQGVGNKF---VPTNGSKAF 116

RESULT 21
ID CALCR PHYBI STANDARD; PRT; 115 AA.
AC P81564;
DT 30-MAY-2000 (Rel. 39, Created)
DT 10-MAY-2005 (Rel. 47, Last sequence update)
DE Skin calcitonin gene-related peptide precursor (S-CGRP).
OS Phyllomedusa bicolor (Two-colored leaf frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae; Hylidae;
OC Phyllomedusinae; Phyllomedusa.
OX NCBI_TaxID=8393;
RN (1)

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CC use as long as its content is in no way modified and this statement is not
CC removed.

CC EMBL; U62629; AAB05916.1; -; Genomic_DNA.
CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00818; ISLETAMYL.
CC SMART; SM00113; CALCITONIN; PARTIAL.
CC PROSITE; PS00258; CALCITONIN; PARTIAL.
CC Amyloid; Hormone.
CC Peptide <1 >32 Islet amyloid polypeptide.
CC NON_TER 1 1
CC FT 32 32
CC SQ SEQUENCE 32 AA; 3300 MW; C65609394EB44C05 CRC64;

Query Match 51.5%; Score 104; DB 1; Length 32;
Best Local Similarity 67.7%; Pred. No. 3.4e-07;
Matches 21; Conservative 1; Mismatches 9; Indels 0; Gaps 0;

Qy 4 TATCATGRIANFLVHSSNNGPILPPTNVGS 34
Db 2 TATCETGRIANFLAPSSNKGALFSPPTKWS 32
|||||

RESULT 17
IAPP_LEPEU STANDARD; PRT; 23 AA.
ID IAPP_LEPEU
AC Q0733;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
Name=IAPP;
OS Lepus europaeus (European hare).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;
OC Lepus.
NCBI_TaxID=9983;
RN NCBI
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Pancreas;
RX MEDLINE=93215963; PubMed=8462765; DOI=10.1007/BE00399947;
RA Christensen L., Bertholz C., Leckstroem A., Westroem U., Cortie C.,
RT Johnson K.H., Adrian T.E., Westmark P.;
RT "Islet amyloid polypeptide in the rabbit and European hare: studies on
its relationship to amyloidogenesis.",
RL Diabetologia 36:183-188(1993)
CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
utilization and glycogen deposition in muscle, while not affecting
adipocyte glucose metabolism.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the calcitonin family.

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CC removed.

CC EMBL; S57602; AAB26083.1; -; mRNA.
CC PIR; I46933; I46933.
CC Amyloid; Hormone.
CC Peptide <1 >23 Islet amyloid polypeptide.
CC NON_TER 1 1
CC FT 23 23
CC SQ SEQUENCE 23 AA; 2546 MW; A5E561D52B353DD CRC64;

Query Match 47.5%; Score 96; DB 1; Length 23;
Best Local Similarity 78.3%; Pred. No. 3.1e-06;
Matches 18; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 9 TORLANFLVHSSNNGPILPPTN 31
Db 1 TORLANFLVHSSNNGALFSPN 23
|||||

RESULT 18
IAPP_BOVIN STANDARD; PRT; 32 AA.
ID IAPP_BOVIN
AC Q28207;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
Name=IAPP;
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
OC Pecora; Bovidae; Bovinae; Bos.
NCBI_TaxID=9913;
RN NCBI
RP NUCLEOTIDE SEQUENCE.
RA Albrandt K., Sierzega M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA."
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
utilization and glycogen deposition in muscle, while not affecting
adipocyte glucose metabolism.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the calcitonin family.

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CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.

CC EMBL; U62626; AAB05915.1; -; Genomic_DNA.
CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00818; ISLETAMYL.
CC SMART; SM00113; CALCITONIN; 1.
CC PROSITE; PS00258; CALCITONIN; PARTIAL.
CC Amyloid; Hormone.
CC Peptide <1 >32 Islet amyloid polypeptide.
CC NON_TER 1 1
CC FT 32 32
CC SQ SEQUENCE 32 AA; 3247 MW; 9A5709394EB44C19 CRC64;

Query Match 47.5%; Score 96; DB 1; Length 32;
Best Local Similarity 64.5%; Pred. No. 4.6e-06;
Matches 20; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

Qy 4 TATCATGRIANFLVHSSNNGPILPPTNVGS 34
Db 2 TATCETGRIANFLAPSSNKGALFSPPTKWS 32
|||||

RESULT 19
CALCR_RANRI STANDARD; PRT; 37 AA.
ID CALCR_RANRI
AC P31885;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide (CGRP).
OS Rana ridibunda (Laughing frog) (Marsh frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana;
OC Pelophylax.
NCBI_TaxID=8406;
RN NCBI
RP PROTEIN SEQUENCE.

```

SQ SEQUENCE 66 AA; 7131 MW; 3F0001BB7099770D CRC64;
Query Match 65.3%; Score 132; DB 2; Length 66;
Best Local Similarity 75.8%; Pred. No. 8.6e-11;
Matches 25; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVG 33
   :|||||:|||||:|||||:|||||:|||||:
DB 34 KCNTATCATQRLVNLFRSSNNIGALISPTDVG 66

RESULT 14
IAPP_SAGOE STANDARD; PRT; 32 AA.
AC Q28934;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DE 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
GN Name-IAPP;
OS Saginus oedipus (Cotton-top tamarin).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;
OC Calitrichidae; Saginus.
OX NCBI_TaxID=9490;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Albrandt K., Sierrega M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA.";
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; U62627; AAB05918.1; -; Genomic_DNA.
CC
CC DR InterPro; IPR000443; Amylin.
CC DR InterPro; IPR001693; Calcitonin-like.
CC DR InterPro; IPR002163; Calcitonin-B.
CC DR Pfam; PF00214; Calc CGRP IAPP; 1.
CC DR PRINTS; PR00817; CALCITONIN.
CC DR PRINTS; PR00818; ISLETAMYLTD.
CC DR SMART; SM00113; CALCITONIN; 1.
CC DR PROSITE; PS00258; CALCITONIN; PARTIAL.
CC KM Amyloid; Hormone.
CC FT PEPTIDE
CC FT NON_TER 1
CC FT NON_TER 32
CC FT NON_TER 32
CC SQ SEQUENCE 32 AA; 3340 MW; 91A219AEB3802C02 CRC64;

Query Match 59.4%; Score 120; DB 1; Length 32;
Best Local Similarity 75.0%; Pred. No. 1.9e-09;
Matches 24; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 3 NTATCATQRLANFLVHSSNNFGPILPPTNVG 34
   |||||:|||||:|||||:|||||:|||||:
DB 1 NTATCSMRHLADFLGRSSNNFGALISPTNVG 32

RESULT 15
IAPP_PIG STANDARD; PRT; 32 AA.
AC Q29119;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
```

```

DE Islet amyloid polypeptide (Amylin) (Fragment).
GN Name-IAPP;
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suidae;
OC Sus.
OX NCBI_TaxID=9823;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Albrandt K., Sierrega M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA.";
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; U62628; AAB05919.1; -; Genomic_DNA.
CC
CC DR InterPro; IPR000443; Amylin.
CC DR InterPro; IPR001693; Calcitonin-like.
CC DR Pfam; PF00214; Calc CGRP IAPP; 1.
CC DR PRINTS; PR00818; ISLETAMYLTD.
CC DR SMART; SM00113; CALCITONIN; 1.
CC DR PROSITE; PS00258; CALCITONIN; PARTIAL.
CC KM Amyloid; Hormone.
CC FT PEPTIDE
CC FT NON_TER 1
CC FT NON_TER 32
CC FT NON_TER 32
CC SQ SEQUENCE 32 AA; 3466 MW; 7EB37B990E555C8 CRC64;

Query Match 53.0%; Score 107; DB 1; Length 32;
Best Local Similarity 68.8%; Pred. No. 1.3e-07;
Matches 22; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 3 NTATCATQRLANFLVHSSNNFGPILPPTNVG 34
   |||||:|||||:|||||:|||||:|||||:
DB 1 NMATCATQRLANFLDRSNNLGTIFSPPTVGS 32

RESULT 16
IAPP_SHEEP STANDARD; PRT; 32 AA.
AC Q28605;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
GN Name-IAPP;
OS Ovis aries (Sheep).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
OC Pecora; Bovidae; Caprinae; Ovis.
OX NCBI_TaxID=9940;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Albrandt K., Sierrega M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA.";
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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```

RP NUCLEOTIDE SEQUENCE OF 1-66.
RA van Dijk M.A.M., de Jong W.W.;
RT "Indels indicate that rodents are monophyletic and lagomorphs are
their sister group."
RN Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
RL
RP NUCLEOTIDE SEQUENCE OF 36-67.
RA Albrandt K., Sierrega M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA."
RL Submitted (Aug-1996) to the EMBL/GenBank/DBJ databases.
RN
RP NUCLEOTIDE SEQUENCE OF 42-64.
RC STRAIN-New Zealand white;
RX MEDLINE=9315963; PubMed=8462765; DOI=10.1007/BF00399947;
RA Christensen L., Betscholtz C., Leckstroem A., Engstroem U., Corrie C.,
Johnson K.H., Adrian T.E., Westermarck P.;
RT "Islet amyloid polypeptide in the rabbit and European hare: studies on
its relationship to amyloidogenesis";
RL Diabetologia 36:183-188(1993).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
utilization and glycogen deposition in muscle, while not affecting
adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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removed.
CC -----
DR EMBL: AJ266814; CAC28529.1; -; mRNA.
DR EMBL: U62630; BAB05917.1; -; Genomic_DNA.
DR EMBL: S57804; AAB26084.1; -; mRNA.
DR PIR: I46934; I46934.
DR InterPro: IPR000443; Amylin.
DR InterPro: IPR001693; Calcitonin-like.
DR Pfam: PF00214; Calc CGP IAPP; 1.
DR PRINTS: PR00818; ISLETAMYLID.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; PARTIAL.
KW Amyloid; Cleaveage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 31
FT PEPTIDE 35 >67 Islet amyloid polypeptide.
FT DISULFD 35 40 By similarity.
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 7230 MW; BF5FEC2064F69646 CRC64;
Query Match 73.3%; Score 148; DB 1; Length 67;
Best Local Similarity 79.4%; Pred. No. 4.8e-13;
Matches 27; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
OY 1 KONTATCATQRLANFLVHSSNNFGPILPPTVNGS 34
DB 34 KONTATCATQRLANFLVHSSNNFGALFSPSPVGS 67
RESULT 12
QATB97.TETNG PRELIMINARY; PRT; 51 AA.
ID QATB97.TETNG
AC QATB97;
DT 13-SEP-2005 (TREMBLrel. 31, Created)
DT 13-SEP-2005 (TREMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TREMBLrel. 31, Last annotation update)
DE Chromosome undetermined SCAF7172, whole genome shotgun sequence.
DE (Fragment).
DE ORFNames=GSTENG0003849001;
OS Tetradon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodon.

OX NCBI_TaxID=99983;
RN
RP NUCLEOTIDE SEQUENCE.
RA Jallion O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Anthonard V., Jubin C., Castellani V., Katinka M., Vacherie B.,
RA Blomont C., Skalli Z., Catolico L., Poulain J., De Bernardis V.,
RA Craud C., Duprat S., Brotier P., Coutanceau J.P., Gouzy J.,
RA Parra G., Lardier G., Chapelle C., McKernan K.J., McEwan P., Bosak S.,
RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
RA Lauder V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
RA Wincker P., Lander E.S., Weissbach J., Roest Crolius H.;
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
the early vertebrate proto-karyotype."
RL Nature 431:946-957(2004).
RN
RP NUCLEOTIDE SEQUENCE.
RG GenomeScope; Whitehead Institute Centre for Genome Research;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
preliminary data.
CC
DR EMBL: CAAB01007172; CAF89835.1; -; Genomic_DNA.
FT NON_TER 1 1
FT NON_TER 51 51
SQ SEQUENCE 51 AA; 5599 MW; 2AB836DCCB4BBEF CRC64;
Query Match 70.8%; Score 143; DB 2; Length 51;
Best Local Similarity 73.0%; Pred. No. 1.8e-12;
Matches 27; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
OY 1 KONTATCATQRLANFLVHSSNNFGPILPPTVNGSNTY 37
DB 8 KONTATCATQRLADFLVHSSNTIGTVYVAPTNGSATY 44
RESULT 13
Q9BEFO.ERIEU PRELIMINARY; PRT; 66 AA.
ID Q9BEFO.ERIEU
AC Q9BEFO;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Islet amyloid polypeptide (Fragment).
DE Name=lapp;
GN Erinnaceus europaeus (Western European hedgehog).
OS Erinnaceus europaeus (Western European hedgehog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Insectivora; Erinaceidae;
OC Erinaceinae; Erinaceus.
OX NCBI_TaxID=9365;
RN
RP NUCLEOTIDE SEQUENCE.
RA van Dijk M.A.M., de Jong W.W.;
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
RN
RP NUCLEOTIDE SEQUENCE.
RA van Dijk M.A.;
RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
AC EMBL: AJ286815; CAC28520.1; -; mRNA.
DR GO: GO:0005576; C:extracellular region; IEA.
DR GO: GO:0005179; F:hormone activity; IEA.
DR InterPro: IPR000443; Amylin.
DR InterPro: IPR001693; Calcitonin-like.
DR InterPro: IPR002163; Calcitonin B.
DR Pfam: PF00214; Calc CGP IAPP; 1.
DR PRINTS: PR00818; ISLETAMYLID.
DR SMART: SM00113; CALCITONIN; 1.
DR PROSITE: PS00258; CALCITONIN; UNKNOWN_1.
FT NON_TER 66 66

```

FT PROPE 77 91 Tyrosine amide (G-74 provides amide
FT MOD_RES 73 73 group).
FT DISULFID 38 43 By similarity.
SQ SEQUENCE 91 AA; 9925 MW; 42AB31AE1CE9EA99 CRC64;

Query Match
Best Local Similarity 81.1%; Score 160; DB 1; Length 91;
Matches 30; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 37 KCNTATCATQRLTNFLVRSNNIGALPPTKVSNTY 73

RESULT 9
ID Q90743 CHICK PRELIMINARY; PRT; 135 AA.
AC Q90743
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DE 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Amyloid protein precursor.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinoptera; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBITaxID=9031;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Leiborn; TISSUE=Pancrreas;
RX MEDLINE=95021303; PubMed=7935487; DOI=10.1210/me.8.6.713;
RA Fan L., Westermarck G., Chan S.J., Steiner D.F.;
RT "Altered gene structure and tissue expression of islet amyloid
RT polypeptide in the chicken."
RL Mol. Endocrinol. 8:713-721(1994).
DR EMBL, L16955; AAA67704.1; -; mRNA.
DR PIR, A56855; A56855.
DR Ensemble; ENSGALG00000013168; Gallus gallus.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR GO; GO:0004672; F:protein kinase activity; IEA.
DR GO; GO:0006468; F:protein amino acid phosphorylation; IEA.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR InterPro; IPR000719; Prot kinase.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONIN.
DR PRINTS; PR00818; ISLETAMYLID.
DR ProDom; PD000001; Prot kinase; 1.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
DR Signal.
FT SIGNAL 1 22 Potential.
FT CHAIN 23 135 amyloid protein.
SQ SEQUENCE 135 AA; 14762 MW; 83DB3223AC735159 CRC64;

Query Match
Best Local Similarity 75.7%; Score 153; DB 2; Length 135;
Matches 29; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 80 KCNTATCATQRLADFLVRSNNIGALPPTNVGSNTY 116

RESULT 10
ID IAPP_CAVPO STANDARD; PRT; 92 AA.
AC IAPP_CAVPO
AC P12966;
DT 01-OCT-1989 (Rel. 12, Created)

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DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Cavia porcellus (Guinea pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
OC Hystriognathii; Caviidae; Cavia.
OX NCBITaxID=10141;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89343542; PubMed=2668946;
RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.F.;
RT "Conservation of the sequence of islet amyloid polypeptide in five
RT mammals is consistent with its putative role as an islet hormone.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742(1989).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL, M25387; AAA37040.1; -; mRNA.
DR PIR, D3542; D3542.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONIN.
DR PRINTS; PR00818; ISLETAMYLID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
DR AMIDATION; Amyloid; Cleavage on pair of basic residues; Hormone;
KW SIGNAL.
FT SIGNAL 1 22 Potential.
FT PROPE 23 34 Islet amyloid polypeptide.
FT PEPTIDE 37 73
FT PROPE 77 92
FT MOD_RES 73 73 Tyrosine amide (G-74 provides amide
FT DISULFID 38 43 group).
SQ SEQUENCE 92 AA; 9989 MW; 67F3629014BF3F9C CRC64;

Query Match
Best Local Similarity 74.8%; Score 151; DB 1; Length 92;
Matches 29; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 37 KCNTATCATQRLTNFLVRSNNIGALPPTDVGSNTY 73

RESULT 11
ID IAPP_RABIT STANDARD; PRT; 67 AA.
AC Q07334; Q28741; Q9BED7;
DT 15-JUL-1998 (Rel. 36, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin) (Fragment).
GN Name=IAPP;
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;
OC Oryctolagus.
OX NCBITaxID=9986;
RN [1]

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DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN.1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues;
KW Direct protein sequencing; Hormone; Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 31
FT PEPTIDE 34 70 Islet amyloid polypeptide.
FT PROPEP 74 89
FT MOD_RES 70 70 Tyrosine amide (G-71 provides amide
FT DISULFID 35 40 group).
SQ SEQUENCE 89 AA; 9832 MM; 0834D783DEAD72A8 CRC64;

Query Match 84.7%; Score 171; DB 1; Length 89;
Best Local Similarity 86.5%; Pred. No. 3.8e-16;
Matches 32; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
Db 34 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 70

RESULT 7
ID IAPP_CANFA STANDARD; PRT; 89 AA.
AC P17716;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
OC Canis.
OX NCBI_TaxId=9615;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=92182022; PubMed=1543754; DOI=10.1016/0167-4781(92)90470-K;
RA Albrandt K., Mull E., Cooper G.J.S., Johnson M.J.;
RT "Nucleotide sequence of a cDNA for canine amylin."
RL Biochim. Biophys. Acta 1130:97-99(1992).
RN [2]
RP NUCLEOTIDE SEQUENCE OF 43-68.
RX MEDLINE=90290487; PubMed=2192709;
RA Jordan K., Muttanah M.P., O'Brien T.D., Westermark P., Betsholtz C.,
RA Johnson K.H.;
RT "Canine IAPP cDNA sequence provides important clues regarding
RT diabetogenesis and amyloidogenesis in type 2 diabetes."
RL Biochem. Biophys. Res. Commun. 169:502-508(1990).
CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the calcitonin family.
CC
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CC removed.
CC -----
CC EMBL; X59988; CAA42616.1; -; mRNA.
CC EMBL; M37720; AAA30849.1; -; mRNA.
CC PIR; S22344; S22344.
CC DR Ensembl; ENSCAPG00000012365; Canis familiaris.
CC DR InterPro; IPR000443; Amylin.
CC DR InterPro; IPR001693; Calcitonin-like.
CC DR InterPro; IPR002163; Calcitonin_B.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00817; CALCITONINB.
CC PRINTS; PR00817; CALCITONINB.
```

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DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN.1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues; Hormone;
KW Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 31
FT PEPTIDE 35 70 Islet amyloid polypeptide.
FT PROPEP 74 89
FT MOD_RES 70 70 Tyrosine amide (G-71 provides amide
FT DISULFID 35 40 group).
FT CONFLICT 67 67 By similarity.
SQ SEQUENCE 89 AA; 9800 MM; 9BF757E1C14935EF CRC64;

Query Match 83.7%; Score 169; DB 1; Length 89;
Best Local Similarity 86.5%; Pred. No. 7.2e-16;
Matches 32; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
Db 34 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 70

RESULT 8
ID IAPP_OCTDE STANDARD; PRT; 91 AA.
AC P22889;
DT 01-AUG-1991 (Rel. 19, Created)
DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Octodon degus (Degu).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
OC Hystricognathi; Octodontidae; Octodon.
OX NCBI_TaxId=10160;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=91155952; PubMed=2293024;
RA Nishi M., Steiner D.F.;
RT "Cloning of complementary DNAs encoding islet amyloid polypeptide,
RT insulin, and glucagon precursors from a New World rodent, the degu,
RT Octodon degus."
RL Mol. Endocrinol. 4:1192-1198(1990).
CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the calcitonin family.
CC
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CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; M57669; AAA40589.1; -; mRNA.
CC PIR; A36118; A36118.
CC DR InterPro; IPR000443; Amylin.
CC DR InterPro; IPR001693; Calcitonin-like.
CC DR InterPro; IPR002163; Calcitonin_B.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00817; CALCITONINB.
CC PRINTS; PR00818; ISLETAMYLOID.
CC SMART; SM00113; CALCITONIN.1.
CC DR PROSITE; PS00258; CALCITONIN.1.
CC Amidation; Amyloid; Cleavage on pair of basic residues; Hormone;
KW Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 34
FT PEPTIDE 37 73 Islet amyloid polypeptide.
```


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OM protein - protein search, using sw model

Run on: May 12, 2006, 15:14:16 ; Search time 186 Seconds
(without alignments)
87.403 Million cell updates/sec

Title: US-08-870-762b-1

Perfect score: 202

Sequence: 1 KCNTATCATGATRLANFLVHSSNNFGPILPTPTVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

A_Geneseq_21:.*
1: geneseqp1980s:.*
2: geneseqp1990s:.*
3: geneseqp2000s:.*
4: geneseqp2001s:.*
5: geneseqp2002s:.*
6: geneseqp2003as:.*
7: geneseqp2003bs:.*
8: geneseqp2004s:.*
9: geneseqp2005s:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	202	100.0	37	2	AAR29199 Pro(25), 28
2	202	100.0	37	2	AAR37792 Pro(25), Pr
3	202	100.0	37	2	AAM22540 Amylin ag
4	202	100.0	37	2	AAM74607 Amino aci
5	202	100.0	37	2	AAM90165 Human amy
6	202	100.0	37	2	AAV22437 Pro(25), Pr
7	202	100.0	37	2	AAW90144 Human amy
8	202	100.0	37	3	AAAB18572 Amino aci
9	202	100.0	37	3	ABAB05488 Human amy
10	202	100.0	37	7	ADP17060 Human alb
11	202	100.0	37	8	AD136171 Human amy
12	202	100.0	37	8	ADN16159 Human pep
13	202	100.0	37	8	ADO51015 Human amy
14	202	100.0	37	8	ADV92867 Human amy
15	202	100.0	37	9	ADV92837 Amylin pe
16	202	100.0	37	9	ADV92870 Amylin pe
17	202	100.0	37	9	AEAB17936 Human amy
18	201	99.5	37	9	AEAB17969 Human amy
19	201	99.5	37	2	AAAR29212 Pro(25) Va
20	201	99.5	37	2	AAAR29212 Ile(17) Pr
21	201	99.5	37	2	AAAR37780 Pro(25), Va
22	201	99.5	37	2	AAAR38816 Ile(17), Pr
23	201	99.5	37	2	AAV22439 Pro(25), Va
24	201	99.5	37	2	AAV22449 Ile(17), Pr
					AAW90146 Human amy

25	201	99.5	37	2	AAW90154 Human amy
26	201	99.5	37	3	AAAB18578 Amino aci
27	201	99.5	37	3	AAAB18589 Amino aci
28	201	99.5	37	5	ABAB05492 Human amy
29	201	99.5	37	5	ABAB05504 Human amy
30	201	99.5	37	8	AD136177 Human amy
31	201	99.5	37	8	AD136188 Human amy
32	201	99.5	37	8	ADOS1032 Human amy
33	201	99.5	37	8	ADOS1021 Human amy
34	201	99.5	37	9	ADV92840 Amylin pe
35	201	99.5	37	9	AEAB17939 Human amy
36	199	98.5	37	2	AAW22541 Amylin ag
37	197	97.5	36	2	AAAR29204 Des-Lys(1
38	197	97.5	36	2	AAAR37793 Des-Lys(1
39	197	97.5	36	2	AAV22442 Des-Lys(1
40	197	97.5	36	2	AAW90145 Human amy
41	197	97.5	36	3	AAAB18581 Amino aci
42	197	97.5	36	5	ABAB05495 Human amy
43	197	97.5	36	8	AD136180 Human amy
44	197	97.5	36	8	ADOS1024 Human amy
45	196	97.0	36	2	AAAR37794 Des-Lys(1
46	196	97.0	37	2	AAW22579 Amylin ag
47	195	96.5	36	7	ADH22050 Amylin an
48	195	96.5	37	2	AAAR29205 Leu(23) Pr
49	195	96.5	37	2	AAAR29211 Ile(17) Le
50	195	96.5	37	2	AAAR38809 Leu(23), Pr
51	195	96.5	37	2	AAAR38815 Ile(17), Le
52	195	96.5	37	2	AAV22448 Ile(17), Le
53	195	96.5	37	2	AAW90153 Human amy
54	195	96.5	37	2	AAW90147 Human amy
55	195	96.5	37	3	AAAB18582 Amino aci
56	195	96.5	37	3	AAAB18588 Amino aci
57	195	96.5	37	5	ABAB05497 Human amy
58	195	96.5	37	5	ABAB05503 Human amy
59	195	96.5	37	8	AD136187 Human amy
60	195	96.5	37	8	AD136181 Human amy
61	195	96.5	37	8	ADOS1025 Human amy
62	195	96.5	37	8	ADOS1031 Human amy
63	195	96.5	37	9	ADV92850 Human amy
64	195	96.5	37	9	ADV92844 Amylin pe
65	195	96.5	37	9	AEAB17943 Human amy
66	195	96.5	37	9	AEAB17949 Human amy
67	194	96.0	37	2	AAAR37786 Pro(25), Pr
68	194	96.0	37	2	AAAR37790 Pro(25), Pr
69	194	96.0	37	2	AAV22440 Arg(18), Pr
70	194	96.0	37	2	AAW90142 Human amy
71	194	96.0	37	3	AAAB18579 Amino aci
72	194	96.0	37	5	ABAB05493 Human amy
73	194	96.0	37	8	AD136178 Human amy
74	194	96.0	37	8	ADOS1022 Human amy
75	194	96.0	37	9	ADV92841 Amylin pe
76	194	96.0	37	9	ADV92866 Amylin pe
77	194	96.0	37	9	AEAB17940 Human amy
78	194	96.0	37	9	AEAB17965 Human amy
79	193	95.5	36	9	ADV92843 Amylin pe
80	193	95.5	36	9	AEAB17942 Human amy
81	193	95.5	37	2	AAAR29203 Val(26) Pr
82	193	95.5	37	2	AAW22551 Amylin ag
83	193	95.5	37	5	ABAB05496 Human amy
84	192	95.0	36	9	ADV92868 Human amy
85	192	95.0	36	9	AEAB17967 Human amy
86	192	95.0	37	2	AAW22577 Amylin ag
87	191.5	94.8	38	9	AEAB17970 Human amy
88	191	94.6	37	9	ADV92851 Human amy
89	191	94.6	37	9	AEAB17950 Human amy
90	190	94.1	36	2	AAAR29213 Des-Lys(1
91	190	94.1	36	2	AAAR38817 Des-Lys(1
92	190	94.1	36	2	AAV22450 Des-Lys(1
93	190	94.1	36	2	AAW90155 Human amy
94	190	94.1	36	3	AAAB18590 Amino aci
95	190	94.1	36	5	ABAB05505 Human amy
96	190	94.1	36	8	AD136189 Human amy
97	190	94.1	36	8	ADOS1033 Human amy

98 190 94.1 36 9 ADV92852
 99 190 94.1 36 9 AEB17951
 100 189 93.6 36 2 AAR37791

Adv92852 Amylin pe
 Aeb17951 Human amy
 Aar37791 (Des-Lys1

ALIGNMENTS

RESULT 1

AAR29199 standard; protein; 37 AA.

AC AAR29199;

DT 25-MAR-2003 (revised)

DT 20-APR-1993 (first entry)

DE Pro(25,28,29)-h-amylin for treating anorexia.

KW Anorexia; cachexia; adipose; amylin.

OS Homo sapiens.

PN WO9220367-A1.

PD 26-NOV-1992.

PF 23-MAY-1992; 92WO-US004357.

PR 24-MAY-1991; 91US-00704995.

PR 03-APR-1992; 92US-00862500.

PA (AMYL-) AMYLIN PHARM INC.

PI Rink TJ, Young AA;

DR WPI; 1992-415470/50.

XX Use of amylin and opt. insulin for treating anorexia - increases plasma

PT amylin and/or insulin levels, also for treating cachexia conditions,

PT adipose tissue deficiency etc.

PS Disclosure; Page 16; 19pp; English.

XX Treatment of a patient with anorexia or related condition comprises

CC admin. of amylin or an analogue in an amt. sufficient to increase the

CC amylin level in the plasma of the patient. The pref. amylin analogues are

CC given in AAR29197-222. Treating a patient deficient in adipose tissue

CC comprises admin. of amylin or an analogue and/or insulin in an amt. and

CC ratio sufficient to increase adipose tissue. Typical dosage units contain

CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-

CC 2003 to correct PN field.)

XX Sequence 37 AA;

XX

XX

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XX

DE Pro25, Pro28, Pro29 human amylin analogue.

XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;

XX hyperglycaemic agent.

KW Homo sapiens.

OS Homo sapiens.

PN WO9310146-A1.

PD 27-MAY-1993.

PF 19-NOV-1992; 92WO-US009842.

PR 19-NOV-1991; 91US-00794266.

PA (AMYL-) AMYLIN PHARM INC.

PI Gaeta LSL, Jones H, Albrecht E;

DR WPI; 1993-182488/22.

XX New amylin agonist peptide(s) - used for treatment and prevention of

PT hypoglycaemia and diabetes mellitus.

PT Claim 43; Fig 1 and Page 22; 43pp; English.

PS This peptide is an example of amylin agonists of the invention which can

XX be used as hyperglycaemics. The peptide is an analogue of human amylin

CC which mimics the effects of the wild-type hormone. Preferred peptides are

CC used in admixture with insulin for the treatment of diabetes mellitus or

CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779

CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN

CC field.)

XX Sequence 37 AA;

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DE Pro25, Pro28, Pro29 human amylin analogue.

XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;

XX hyperglycaemic agent.

KW Homo sapiens.

OS Homo sapiens.

PN WO9310146-A1.

PD 27-MAY-1993.

PF 19-NOV-1992; 92WO-US009842.

PR 19-NOV-1991; 91US-00794266.

PA (AMYL-) AMYLIN PHARM INC.

PI Gaeta LSL, Jones H, Albrecht E;

DR WPI; 1993-182488/22.

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XX be used as hyperglycaemics. The peptide is an analogue of human amylin

CC which mimics the effects of the wild-type hormone. Preferred peptides are

CC used in admixture with insulin for the treatment of diabetes mellitus or

CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779

CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN

CC field.)

XX Sequence 37 AA;

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DE Pro25, Pro28, Pro29 human amylin analogue.

XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;

XX hyperglycaemic agent.

KW Homo sapiens.

OS Homo sapiens.

PN WO9310146-A1.

PD 27-MAY-1993.

PF 19-NOV-1992; 92WO-US009842.

PR 19-NOV-1991; 91US-00794266.

PA (AMYL-) AMYLIN PHARM INC.

PI Gaeta LSL, Jones H, Albrecht E;

DR WPI; 1993-182488/22.

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PT hypoglycaemia and diabetes mellitus.

PT Claim 43; Fig 1 and Page 22; 43pp; English.

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XX be used as hyperglycaemics. The peptide is an analogue of human amylin

CC which mimics the effects of the wild-type hormone. Preferred peptides are

CC used in admixture with insulin for the treatment of diabetes mellitus or

CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779

CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN

CC field.)

XX Sequence 37 AA;

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Query Match 100.0%; Score 202; DB 2; Length 37;
Best Local Similarity 100.0%; Pred. No. 6.4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37

RESULT 6
AAV22437

ID AAV22437 standard; peptide; 37 AA.

AC AAV22437;

DT 28-SBP-1999 (first entry)

DE Pro25, Pro28, Pro29 amylin analogue.

KW Amylin agonist; human; insulin; diabetes; post-prandial glucose level;
therapy; mutain.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers

FT Disulfide-bond 2..7

FT Misc-difference 25 /label= A18P

FT Misc-difference 28 /label= S2SP

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

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FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37

RESULT 7
AAW90144

ID AAW90144 standard; peptide; 37 AA.

AC AAW90144;

DT 15-MAR-1999 (first entry)

DE Human amylin agonist peptide 25,28,29-Pro-amylin.

KW Amylin; human; agonist; gastritis; gastric ulceration; treatment;
non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
pain; fever; inflammation; arthritis; hypercoagulation.

KW Amylin; human; agonist; gastritis; gastric ulceration; treatment;
non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
pain; fever; inflammation; arthritis; hypercoagulation.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers

FT Disulfide-bond 2..7

FT Misc-difference 25 /label= A18P

FT Misc-difference 28 /label= S2SP

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

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FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

FT Misc-difference 29 /label= S28P

RESULT 8

Query Match 100.0%; Score 202; DB 2; Length 37;
Best Local Similarity 100.0%; Pred. No. 6.4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37

AB18572
ID AAB18572 standard; peptide; 37 AA.
XX
AC AAB18572;
XX
DT 15-JAN-2001 (first entry)
XX
DE Amino acid sequence of an amylin agonist analogue compound.
XX
KM Amylin agonist; amylin; gastric motility; gastric emptying;
XX postprandial dumping syndrome; postprandial hyperglycemia;
KM gastrointestinal diagnostic procedure; gastrointestinal disorder; spasm;
KW acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Disulfide-bond 2..7
FT Modified-site 37
FT /note="amidated residue"
XX
PN US6114304-A.
XX
PD 05-SEP-2000.
XX
PF 07-SEP-1994; 94US-00302069.
XX
PR 07-SEP-1993; 93US-00118381.
XX
PA (AMYL-) AMYLIN PHARM INC.
XX
PI Young AA, Rink TJ, Brown KAK, Kolterman OG;
XX
DR WPI; 2000-601336/57.
XX
PT Treating gastrointestinal disorder e.g. spasm by reducing gastric
XX motility or delaying gastric emptying, postprandial dumping syndrome or
PT postprandial hyperglycemia, by administering amylin or amylin agonist.
XX
PS Disclosure; Col 35-36; 50pp; English.
XX
XX The present sequence represents an amylin agonist analogue compound.
CC Amylin or amylin agonists are administered for reducing gastric motility
CC or delaying gastric emptying, and for treating postprandial dumping
CC syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
CC mammal. The peptides are used to reduce gastric motility or for delaying
CC gastric emptying in a mammal undergoing gastrointestinal diagnostic
CC procedures, such as radiological examination or magnetic resonance
CC imaging. They are also used for reducing gastric motility in
CC gastrointestinal disorder, especially spasm, which is associated with a
CC disorder of acute diverticulitis or disorders of biliary tract or
CC sphincter of oddi. They are also used to treat postprandial dumping
CC syndrome or postprandial hyperglycemia
XX
SQ Sequence 37 AA;

Query Match 100.0%; Score 202; DB 3; Length 37;
Best Local Similarity 100.0%; Pred. No. 6.4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 9
ID ABB05489
XX ABB05489 standard; peptide; 37 AA.
XX
AC ABB05489;
XX
DT 19-APR-2002 (first entry)
XX

DE Human amylin agonist 25,28,29Pro-h-amylin, pramlintide.
XX
XX Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
KW liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
KW citrate; glutamate; buffer; antidiabetic; type II diabetes.
XX
OS Homo sapiens.
XX
PN US2001043934-A1.
XX
PD 22-NOV-2001.
XX
PF 09-JAN-1998; 98US-00005262.
XX
PR 08-JAN-1997; 97US-0035140P.
XX
PA (LITA/) L'ITALIEN J.
PA (MUSU/) MUSUNURI S.
PA (RUBY/) RUBY K.
XX
PI L'italien J, Musunuri S, Ruby K;
XX
DR WPI; 2002-163554/21.
XX
PT New pharmaceutical formulation useful for treating patients with type II
PT diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
PT a buffer.
XX
PS Example 1; Page; 19pp; English.
XX
CC The present invention describes a liquid pharmaceutical formulation (A)
CC comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
CC polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
CC glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
CC commercial package containing the liquid pharmaceutical formulation (A).
CC The package comprises a borosilicate glass vial having an open end, a
CC stopper for multise compatible with the amylin and/or amylin agonist
CC fixed in the open end of the vial and an aluminum band to retain the
CC stopper in the far end of the vial. The package also comprises a
CC cartridge for use in a pen injector. (A) has antidiabetic activity and
CC can be used in the treatment of patients with type II diabetes. The
CC formulation comprises amylin agonist which is biologically active, has a
CC reduced tendency to form aggregates in water or at a pressure of greater
CC than 2 psi and has a reduced tendency to precipitate in the presence of
CC NaCl compared to human amylin. The formulation maintains stability upon
CC storage under refrigerated or room-temperature conditions. The
CC formulation retains short-term mixing compatibility with insulin and
CC results in improved stability of the hormone and the patients no longer
CC need to refrigerate the vial of insulin in use. The present sequence
CC represents a human amylin peptide analogue (called pramlintide), which
CC can be used as an amylin agonist in the present invention. N.B. The
CC present sequence is not given in the present specification but is derived
CC from the 37 amino acid human amylin as stated in the invention
XX
SQ Sequence 37 AA;

Query Match 100.0%; Score 202; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 6.4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 10
ID ADP17060
XX ADP17060 standard; protein; 37 AA.
XX
AC ADP17060;
XX
DT 12-FEB-2004 (first entry)
XX

QY 1 KONTATCQRLANFLVHSSNNGPILPPTNVGSNTY 37
|||||

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Db      1 KCNTATCATQRLANFLVHSSNNFGPILEPTVGSNTY 37

RESULT 11
AD136171
ID      AD136171 standard; peptide; 37 AA.
XX
XX
AC      AD136171;
XX
DT      15-APR-2004 (first entry)
DE

XX      Human amylin agonist analogue #1.
XX
XX      Gastric motility; gastric emptying; amylin agonist; therapy; diagnosis;
XX      antidiabetic; hypoglycaemia; human.
XX
OS      Homo sapiens.
XX
FH      Key Location/Qualifiers
FT      Disulfide-bond 2..7
FT      Modified-site 37
FT      /note= "Amidated tyrosine"
XX
XX      US6608029-B1.
XX
XX      19-AUG-2003.
XX
XX      22-MAY-2000; 2000US-00576062.
XX
XX      07-SEP-1993; 93US-00118381.
XX      07-SEP-1994; 94US-00302069.
XX
XX      (AMYL-) AMYLIN PHARM INC.
XX
XX      Kolterman OG, Young AA, Rink TJ, Keating Brown KA;
XX
XX      WPI; 2004-118064/12.
XX
XX      Reducing gastric motility or delaying gastric emptying in a mammal,
XX      useful for treating post-prandial hyperglycemia, comprises administering
XX      an amylin or an amylin agonist.
XX
XX      Disclosure; SEQ ID NO 1; 51pp; English.
XX
XX      The present invention is directed to novel methods for reducing gastric
XX      motility and delaying gastric emptying, comprising the administration of
XX      an amylin or an amylin agonist. The invention is useful for reducing
XX      gastric motility and delaying gastric emptying for therapeutic and
XX      diagnostic purposes. The invention is also useful for treating conditions
XX      associated with elevated, inappropriate or undesired post-prandial blood
XX      glucose levels and creating ingestion of a toxin. The present sequence is
XX      human amylin agonist analogue.
XX
XX      Sequence 37 AA;

Query Match      100.0%; Score 202; DB 8; Length 37;
Best Local Similarity 100.0%; Pred. No. 6,4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KCNTATCATQRLANFLVHSSNNFGPILEPTVGSNTY 37
      |||
Db      1 KCNTATCATQRLANFLVHSSNNFGPILEPTVGSNTY 37

RESULT 12
ADN16159
ID      ADN16159 standard; peptide; 37 AA.
XX
XX      ADN16159;
XX
DT      29-JUL-2004 (first entry)
DE      Human peptide hormone Amylin-analogue 25,28,29Pro-h-amylin.

```

XX Human; hormone; Amylin; insulin secretion; glucagon secretion;
 KW pancreatic; anti-inflammatory; low fat diet; pain; 25; 28;
 KM 29Pro-h-amylin; mutant.
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Misc-difference 25 /note= "Wild-type Ala substituted by Pro"
 FT Misc-difference 28 /note= "Wild-type Ser substituted by Pro"
 FT Misc-difference 29 /note= "Wild-type Ser substituted by Pro"
 FT
 PN WO2004037168-A2.
 PD 06-MAY-2004.
 XX
 XX 24-SEP-2003; 2003WO-US030224.
 PF
 XX 18-OCT-2002; 2002US-0419440P.
 PR
 XX (AMYL-) AMYLIN PHARM INC.
 PA
 XX Gedulin B, Young AA;
 PI
 XX WPI; 2004-365410/34.
 DR
 XX
 XX Treating pancreatitis or relieving pain caused by pancreatitis comprises
 PT administering to the subject an amylin, amylin analog or an amylin
 PT agonist.
 PT
 XX
 XX Claim 9; Page; 33pp; English.
 PS
 XX The invention relates to treating pancreatitis or in relieving pain
 CC caused by pancreatitis in a mammalian subject comprises administering to
 CC the subject an amount of an Amylin (a peptide hormone which inhibits
 CC insulin and glucagon secretion), Amylin analogue or an Amylin agonist,
 CC where the Amylin agonist is not calcitonin. Also included is a method of
 CC improving a treatment for pancreatitis in a mammalian subject. The Amylin
 CC analogue is 25,28,29Pro-h-amylin. The method further comprises
 CC administering to the subject an analgesic. The regime includes a low-fat
 CC diet. The methods are useful in treating pancreatitis or relieving pain
 CC caused by pancreatitis in a mammalian subject. The present sequence
 CC represents human Amylin analogue 25,28,29Pro-h-amylin. Note: The present
 CC sequence is not shown in the specification but was created by the indexer
 CC using the information in claim 9 and wild-type amylin (ADN16157).
 CC
 XX Sequence 37 AA;
 SQ
 Query Match 100.0%; Score 202; DB 8; Length 37;
 Best Local Similarity 100.0%; Pred. No. 6,4e-21;
 Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37
 DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37

RESULT 13
 ADOS1015
 ID ADOS1015 standard; peptide; 37 AA.
 XX
 XX ADO51015;
 AC
 XX
 XX 18-NOV-2004 (first entry)
 DT
 XX
 XX Human amylin agonist peptide analogue #1.
 DE
 XX Gastric motility; delay gastric emptying; amylin; agonist;
 KW postprandial dumping syndrome; postprandial hyperglycemia;
 KM

KW gastrointestinal disorder; spasms; radiological examination;
 KW magnetic resonance imaging; diabetes; therapy; human.
 KM
 XX Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH Modified-site 37 /note= "C-terminal amide"
 FT
 FT
 PN US2004097415-A1.
 PD 20-MAY-2004.
 XX
 XX 18-ANG-2003; 2003US-00643681.
 PF
 XX 07-SEP-1993; 93US-00118381.
 PR 07-SEP-1994; 94US-00302069.
 PR 22-MAY-2000; 2000US-00576062.
 XX
 XX (KOLT/) KOLTERMAN O G.
 PA (YOUN/) YOUNG A A.
 PA (RINK/) RINK T J.
 PA (BROW/) KEATING BROWN K A.
 XX
 XX Kolterman OG, Young AA, Rink TJ, Keating Brown KA;
 PI
 XX WPI; 2004-389180/36.
 DR
 XX
 XX Use of amylin agonist for reducing gastric motility, delaying gastric
 PT emptying and for treating postprandial dumping syndrome and postprandial
 PT hyperglycemia.
 PT
 XX Disclosure; SEQ ID NO 1; 35pp; English.
 PS
 XX The present invention is directed to novel methods for reducing gastric
 CC motility and delaying gastric emptying which comprises the administration
 CC of an amylin or an amylin agonist. The invention is useful for treating
 CC postprandial dumping syndrome, postprandial hyperglycemia and reducing
 CC gastric motility associated with gastrointestinal disorders such as spasms
 CC or delaying gastric emptying in a mammal undergoing a gastrointestinal
 CC diagnostic procedure such as radiological examination and magnetic
 CC resonance imaging. The invention is also useful for lowering postprandial
 CC blood glucose levels during treatment of diabetes. The present sequence
 CC is human amylin agonist peptide analogue. This sequence is used in the
 CC invention.
 CC
 XX Sequence 37 AA;
 SQ
 Query Match 100.0%; Score 202; DB 8; Length 37;
 Best Local Similarity 100.0%; Pred. No. 6,4e-21;
 Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37
 DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37

RESULT 14
 ADV92837
 ID ADV92837 standard; peptide; 37 AA.
 XX
 XX ADV92837;
 AC
 XX
 XX 24-MAR-2005 (first entry)
 DT
 XX
 XX Amylin peptide amino acid sequence - SEQ ID 257.
 DE
 XX delivery mechanism; viral infections; virucide; bacterial infection;
 KW antibacterial; amylin.
 KM
 XX Unidentified.
 OS
 XX WO2005000222-A2.
 PN

CC pramlintide peptide, which serves as an amylin agonist peptide.
XX
SQ Sequence 37 AA;

Query Match 100.0%; Score 202; DB 9; Length 37;
Best Local Similarity 100.0%; Pred. No. 6,4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

RESULT 17

AEBI7969
ID AEBI7969 standard; peptide; 37 AA.

AC AEBI7969;

DT 08-SEP-2005 (first entry)

DE Human amylin agonist, pramlintide peptide SEQ ID NO: 47 #1.

XX Pharmaceutical; weight loss; obesity; anorectic; nutritional disorder;
KM hyperglycemia; antidiabetic; metabolic disorder; antilipemic;
KM diabetes mellitus; metabolic disorder; glucose regulating peptide;
KM amylin agonist; pramlintide.

OS Homo sapiens.

XX Key Location/Qualifiers

FT Disulfide-bond 2..7

FT Modified-site 37 /note= "Amidated"

XX US2005143303-A1.

XX 30-JUN-2005.

XX 18-NOV-2004; 2004US-00991597.

XX 26-DEC-2003; 2003US-0532337P.

XX (NAST-) NASTECH PHARM CO INC.

XX Quay SC, Costantino HR;

XX WPI; 2005-496434/50.

XX New transmembrane glucose-regulating peptide (GRP) formulation, useful for
PT treating e.g. obesity, hyperglycemia, dyslipidemia and diabetes mellitus
PT and for inducing satiety in an individual and to promote weight-loss in
PT an individual.

PS Claim 7; SEQ ID NO 47; 55pp; English.

XX The present invention relates to pharmaceutical compositions and methods
CC comprising at least one glucose regulating peptide (GRP) such as amylin,
CC an amylin analog (such as pramlintide), glucagon-like peptide-1 (GLP)-1,
CC extendin-3 or extendin-4 and one or more mucosal delivery-enhancing agents.
CC The formulation or the method is useful for treating variety of diseases
CC and conditions in mammalian subjects including obesity, hyperglycemia,
CC dyslipidemia and diabetes mellitus and for inducing satiety in an
CC individual and to promote weight-loss in an individual. The invention is
CC also useful in protein therapy. The present sequence is the human
CC pramlintide peptide, which serves as an amylin agonist peptide. Note: The
CC present sequence is the SEQ ID NO: 47 which is given in the sequence
CC listing. This sequence differs from the SEQ ID NO:47 shown on page 6 of
CC the specification (see AEBI7970).

XX Sequence 37 AA;

Query Match 100.0%; Score 202; DB 9; Length 37;

Best Local Similarity 100.0%; Pred. No. 6,4e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

RESULT 18

AAR29202
ID AAR29202 standard; protein; 37 AA.

AC AAR29202;

DT 25-MAR-2003 (revised)

DT 20-APR-1993 (first entry)

DE Pro(25)Val(26)Pro(28,28)-h-amylin for treating anorexia.

XX Anorexia; cachexia; adipose; amylin.

XX Homo sapiens.

XX WO9220367-A1.

XX 26-NOV-1992.

XX 23-MAY-1992; 92WO-US004357.

XX 24-MAY-1991; 91US-00704995.

XX 03-APR-1992; 92US-00862500.

XX (AMYL-) AMYLIN PHARM INC.

XX Rank TJ, Young AA;

XX WPI; 1992-415470/50.

XX Use of amylin and opt. insulin for treating anorexia - increases plasma
PT amylin and/or insulin levels, also for treating cachexia conditions,
PT adipose tissue deficiency etc.
PS Disclosure; Page 16; 19pp; English.

XX Treatment of a patient with anorexia or related condition comprises
CC admin. of amylin or an analogue in an amt. sufficient to increase the
CC amylin level in the plasma of the patient. The pref. amylin analogues are
CC given in AAR29197-222. Treating a patient deficient in adipose tissue
CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
CC ratio sufficient to increase adipose tissue. Typical dosage units contain
CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
CC 2003 to correct FN field.)

XX Sequence 37 AA;

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8,9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

RESULT 19

AAR29212
ID AAR29212 standard; protein; 37 AA.

AC AAR29212;

DT 25-MAR-2003 (revised)

DT 20-APR-1993 (first entry)

DE Ile(17)Pro(25,28,29)-h-amylin for treating anorexia.
 XX Anorexia; cachexia; adipose; amylin.
 XX Homo sapiens.
 OS MO9220367-A1.
 XX
 PD 26-NOV-1992.
 XX
 PF 23-MAY-1992; 92WO-US004357.
 XX
 PR 24-MAY-1991; 91US-00704995.
 PR 03-APR-1992; 92US-00862500.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI Rink TJ, Young AA;
 DR WPI; 1992-415470/50.
 XX
 PT Use of amylin and opt. insulin for treating anorexia - increases plasma
 PT amylin and/or insulin levels, also for treating cachexia conditions,
 PT adipose tissue deficiency etc.
 XX
 PS Disclosure; Page 16; 19pp; English.
 XX
 CC Treatment of a patient with anorexia or related condition comprises
 CC admin. of amylin or an analogue in an amt. sufficient to increase the
 CC amylin level in the plasma of the patient. The pref. amylin analogues are
 CC given in AAR29197-222. Treating a patient deficient in adipose tissue
 CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
 CC ratio sufficient to increase adipose tissue. Typical dosage units contain
 CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
 CC 2003 to correct PN field.)
 XX
 SQ Sequence 37 AA;
 QY
 Query Match 99.5%; Score 201; DB 2; Length 37;
 Best Local Similarity 97.3%; Pred. No. 8.9e-21;
 Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Db 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
 RESULT 20
 AAR37780
 ID AAR37780 standard; peptide; 37 AA.
 AC AAR37780;
 XX
 XX 25-MAR-2003 (revised)
 DT 07-SEP-1993 (first entry)
 XX
 DE Pro25, Val26, Pro28, Pro29 human amylin analogue.
 XX
 XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.
 XX
 OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 2..7
 FT Misc-difference 25
 FT Misc-difference 26 /note= "Pro replaces wild-type Ala"
 FT Misc-difference 28 /note= "Val replaces wild-type Ile"
 FT Misc-difference 29 /note= "Pro replaces wild-type Ser"
 FT Misc-difference 29 /note= "Pro replaces wild-type Ser"

FT Modified-site 37 /note= "amidated"
 FT
 XX
 PN WO9310146-A1.
 XX
 PD 27-MAY-1993.
 XX
 PF 19-NOV-1992; 92WO-US009842.
 XX
 PR 19-NOV-1991; 91US-00794266.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI Gaeta LSL, Jones H, Albrecht E;
 DR WPI; 1993-182488/22.
 XX
 PT New amylin agonist peptide(s) - used for treatment and prevention of
 PT hypoglycaemia and diabetes mellitus.
 XX
 PS Example 2; Fig 1 and Page 16; 43pp; English.
 XX
 CC This peptide is an example of amylin agonists of the invention which can
 CC be used as hyperglycaemics. The peptide is an analogue of human amylin
 CC which mimics the effects of the wild-type hormone. Preferred peptides are
 CC used in admixture with insulin for the treatment of diabetes mellitus or
 CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
 CC field.)
 XX
 SQ Sequence 37 AA;
 QY
 Query Match 99.5%; Score 201; DB 2; Length 37;
 Best Local Similarity 97.3%; Pred. No. 8.9e-21;
 Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Db 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
 RESULT 21
 AAR38816
 ID AAR38816 standard; peptide; 37 AA.
 AC AAR38816;
 XX
 XX 25-MAR-2003 (revised)
 DT 07-SEP-1993 (first entry)
 XX
 DE Ile17, Pro25, Pro28, Pro29-human amylin analogue.
 XX
 XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.
 XX
 OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 2..7
 FT Misc-difference 17
 FT Misc-difference 25 /note= "Ile replaces wild-type Val"
 FT Misc-difference 28 /note= "Pro replaces wild-type Ala"
 FT Misc-difference 29 /note= "Pro replaces wild-type Ser"
 FT Modified-site 37 /note= "amidated"
 FT
 PN WO9310146-A1.
 PD 27-MAY-1993.

DR WPI, 1999-458254/38.
XX Stabilised liquid formulation for treatment of insulin-dependent diabetes
PT mellitus.
PT
XX
PS Disclosure, Page, 71pp; English.
XX
XX This sequence represents a human amylin analogue, that acts as a amylin
CC agonist. The invention relates to a liquid pharmaceutical formulation
CC (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10%
CC carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or
CC glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with
CC insulin, for treatment of diabetes, specifically to reduce post-prandial
CC increases in glucose levels of the blood. In these formulations, (I) is
CC stabilised, especially against deamidation and peptide bond hydrolysis
CC for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without
CC addition of a separate stabiliser. They also retain short-term (up to 24
CC hr) stability when combined with insulin, allowing both agents to be
CC administered together, reducing the number of injections required. Note:
CC This sequence was created by the indexer from information given in the
CC specification
XX
SQ Sequence 37 AA:

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 24
ID AAM90146 standard; peptide; 37 AA.
AC AAM90146;
XX
XX 15-MAR-1999 (first entry)
DT
XX
XX Human amylin agonist peptide 25-Pro26-Val28,29-Pro-amylin.
DE
XX Amylin; human; agonist; gastritis; gastric ulceration; treatment;
XX non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
XX pain; fever; inflammation; arthritis; hypercoagulation.
XX
XX Homo sapiens.
OS
XX Synthetic.
XX
XX Key Location/Qualifiers
XX FT Disulfide-bond 2..7
XX
XX WO9850059-A1.
XX
XX 12-NOV-1998.
PD
XX
XX 06-MAY-1998; 98WO-US009089.
PF
XX
XX 06-MAY-1997; 97US-00851965.
PR
XX
XX (AMYL-) AMYLIN PHARM INC.
PA
XX
XX Young A, Gedulin B, Beynon GW;
XX
XX WPI, 1999-059652/05.
DR
XX
XX Method for treating or preventing gastritis - comprises administering
PT amylin or amylin agonist, except calcitonin.
PT
XX
XX Claim 6; Page 42; 48pp; English.
PS
XX
XX This invention relates to a method for treating or preventing gastritis

CC or gastric ulceration which comprises administering amylin or an amylin
CC agonist. Amylin administration is not carried out intra-
CC cerebroventricularly. The specification describes a method for treating
CC or preventing a condition for which a non-steroidal anti-inflammatory
CC agent (NSAID) is indicated, comprising administering amylin or amylin
CC agonist, which is not calcitonin, together with NSAID and also a
CC composition comprising an amylin or an amylin agonist or their salts,
CC except calcitonin and a NSAID in a carrier. The amylin composition is
CC used to treat humans by administering it subcutaneously, intravenously or
CC by nasal, oral, pulmonary, transdermal and buccal routes. The method is
CC also used to treat pain, fever, inflammation, arthritis, hypercoagulation
CC and other condition where an NSAID would be indicated. The present
CC sequence is an example of an agonist used in the method
XX
SQ Sequence 37 AA:

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 25
ID AAM90154 standard; peptide; 37 AA.
AC AAM90154;
XX
XX 15-MAR-1999 (first entry)
DT
XX
XX Human amylin agonist peptide 17-Ile25,28,29-Pro-amylin.
DE
XX
XX Amylin; human; agonist; gastritis; gastric ulceration; treatment;
XX non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
XX pain; fever; inflammation; arthritis; hypercoagulation.
XX
XX Homo sapiens.
OS
XX Synthetic.
XX
XX Key Location/Qualifiers
XX FT Disulfide-bond 2..7
XX
XX WO9850059-A1.
XX
XX 12-NOV-1998.
PD
XX
XX 06-MAY-1998; 98WO-US009089.
PF
XX
XX 06-MAY-1997; 97US-00851965.
PR
XX
XX (AMYL-) AMYLIN PHARM INC.
PA
XX
XX Young A, Gedulin B, Beynon GW;
XX
XX WPI, 1999-059652/05.
DR
XX
XX Method for treating or preventing gastritis - comprises administering
PT amylin or amylin agonist, except calcitonin.
PT
XX
XX Claim 6; Page 42; 48pp; English.
PS
XX
XX This invention relates to a method for treating or preventing gastritis
CC or gastric ulceration which comprises administering amylin or an amylin
CC agonist. Amylin administration is not carried out intra-
CC cerebroventricularly. The specification describes a method for treating
CC or preventing a condition for which a non-steroidal anti-inflammatory
CC agent (NSAID) is indicated, comprising administering amylin or amylin
CC agonist, which is not calcitonin, together with NSAID and also a
CC composition comprising an amylin or an amylin agonist or their salts,
CC except calcitonin and a NSAID in a carrier. The amylin composition is

CC used to treat humans by administering it subcutaneously, intravenously or
CC by nasal, oral, pulmonary, transdermal and buccal routes. The method is
CC also used to treat pain, fever, inflammation, arthritis, hypercoagulation
CC and other condition where an NSAID would be indicated. The present
CC sequence is an example of an agonist used in the method

XX Sequence 37 AA;

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8,9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGFPIPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNGFPIPTNVGSNTY 37

RESULT 26
AAB18578
XX AAB18578 standard; peptide; 37 AA.
XX
XX AAB18578;
XX
XX 15-JAN-2001 (first entry)
XX
XX

DE Amino acid sequence of an amylin agonist analogue compound.

XX Amylin agonist; amylin; gastric motility; gastric emptying;
KM postprandial dumping syndrome; postprandial hyperglycemia;
KW gastrointestinal diagnostic procedure; gastrointestinal disorder; spasm;
KM acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.
XX
XX

OS Synthetic.

Key Location/Qualifiers
FH Disulfide-bond 2..7
FT Modified-site 37
FT Modified-site /note= "amidated residue"

XX US6114304-A.

XX 05-SEP-2000.

XX 07-SEP-1994; 94US-00302069.

XX 07-SEP-1993; 93US-00118381.

XX (AMYL-) AMYLIN PHARM INC.

XX Young AA, Rink TJ, Brown KAK, Kolterman OG;

XX WPI, 2000-601336/57.

XX Treating gastrointestinal disorder e.g. spasm by reducing gastric
PT motility or delaying gastric emptying, postprandial dumping syndrome or
PT postprandial hyperglycemia, by administering amylin or amylin agonist.
XX

XX Disclosure; Col 39-40; 50pp; English.

XX The present sequence represents an amylin agonist analogue compound.
CC Amylin or amylin agonists are administered for reducing gastric motility
CC or delaying gastric emptying, and for treating postprandial dumping
CC syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
CC mammal. The peptides are used to reduce gastric motility or for delaying
CC gastric emptying in a mammal undergoing gastrointestinal diagnostic
CC procedures, such as radiological examination or magnetic resonance
CC imaging. They are also used for reducing gastric motility in
CC gastrointestinal disorder, especially spasm, which is associated with a
CC sphincter of oddi. They are also used to treat postprandial dumping
CC syndrome or postprandial hyperglycemia

XX Sequence 37 AA;

Query Match 99.5%; Score 201; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 8,9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGFPIPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNGFPIPTNVGSNTY 37

RESULT 27
AAB18589
XX AAB18589 standard; peptide; 37 AA.
XX
XX AAB18589;
XX
XX 15-JAN-2001 (first entry)
XX
XX

DE Amino acid sequence of an amylin agonist analogue compound.

XX Amylin agonist; amylin; gastric motility; gastric emptying;
KM postprandial dumping syndrome; postprandial hyperglycemia;
KW gastrointestinal diagnostic procedure; gastrointestinal disorder; spasm;
KM acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.
XX
XX

OS Synthetic.

Key Location/Qualifiers
FH Disulfide-bond 2..7
FT Modified-site 37
FT Modified-site /note= "amidated residue"

XX US6114304-A.

XX 05-SEP-2000.

XX 07-SEP-1994; 94US-00302069.

XX 07-SEP-1993; 93US-00118381.

XX (AMYL-) AMYLIN PHARM INC.

XX Young AA, Rink TJ, Brown KAK, Kolterman OG;

XX WPI, 2000-601336/57.

XX Treating gastrointestinal disorder e.g. spasm by reducing gastric
PT motility or delaying gastric emptying, postprandial dumping syndrome or
PT postprandial hyperglycemia, by administering amylin or amylin agonist.
XX

XX Disclosure; Col 47-48; 50pp; English.

XX The present sequence represents an amylin agonist analogue compound.
CC Amylin or amylin agonists are administered for reducing gastric motility
CC or delaying gastric emptying, and for treating postprandial dumping
CC syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
CC mammal. The peptides are used to reduce gastric motility or for delaying
CC gastric emptying in a mammal undergoing gastrointestinal diagnostic
CC procedures, such as radiological examination or magnetic resonance
CC imaging. They are also used for reducing gastric motility in
CC gastrointestinal disorder, especially spasm, which is associated with a
CC disorder of acute diverticulitis or disorders of biliary tract or
CC sphincter of oddi. They are also used to treat postprandial dumping
CC syndrome or postprandial hyperglycemia

XX Sequence 37 AA;

Query Match 99.5%; Score 201; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 8,9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGFPIPTNVGSNTY 37
|||||

DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTVNGSNTY 37
RESULT 28
ABB05492
ID ABB05492 standard; peptide; 37 AA.
XX
XX ABB05492;
XX
XX 19-APR-2002 (first entry)
XX
XX Human amylin agonist 25ProGVal28, 29Pro-h-amylin.
XX
XX Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
XX liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
XX citrate; glutamate; buffer; antidiabetic; type II diabetes.
XX
XX Homo sapiens.
XX Synthetic.
XX US2001043934-A1.
XX
XX 22-NOV-2001.
XX
XX 09-JAN-1998; 98US-00005262.
XX
XX 08-JAN-1997; 97US-0035140P.
XX
XX (LIT/A) L'ITALIEN J.
XX (MUSU/) MUSUNURI S.
XX (RUBY/) RUBY K.
XX
XX L'Italien J, Musunuri S, Ruby K;
XX
XX WPI; 2002-163554/21.
XX
XX New pharmaceutical formulation useful for treating patients with type II
XX diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
XX a buffer.
XX
XX Disclosure; Page; 19pp; English.
XX
XX The present invention describes a liquid pharmaceutical formulation (A)
XX comprising (w/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
XX polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
XX glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
XX commercial package containing the liquid pharmaceutical formulation (A).
XX The package comprises a borosilicate glass vial having an open end, a
XX stopper for multise compatible with the amylin and/or amylin agonist
XX fixed in the open end of the vial. The package also comprises a
XX cartridge for use in a pen injector. (A) has antidiabetic activity and
XX can be used in the treatment of patients with type II diabetes. The
XX formulation comprises amylin agonist which is biologically active, has a
XX reduced tendency to form aggregates in water or at a pressure of greater
XX than 2 psi and has a reduced tendency to precipitate in the presence of
XX NaCl compared to human amylin. The formulation maintains stability upon
XX storage under refrigerated or room-temperature conditions. The
XX formulation retains short-term mixing compatibility with insulin and
XX results in improved stability of the hormone and the patients no longer
XX need to refrigerate the vial of insulin in use. The present sequence
XX represents a human amylin peptide analogue, which can be used as an
XX amylin agonist in the present invention. N.B. The present sequence is not
XX given in the present specification but is derived from the 37 amino acid
XX human amylin as stated in the invention
XX
XX Sequence 37 AA;
SQ

Query Match 99.5%; Score 201; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 KCNTATCATQRLANFLVHSSNFGPILPPTVNGSNTY 37

DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTVNGSNTY 37
RESULT 29
ABB05504
ID ABB05504 standard; peptide; 37 AA.
XX
XX ABB05504;
XX
XX 19-APR-2002 (first entry)
XX
XX Human amylin agonist 17Ile25, 28, 29Pro-h-amylin.
XX
XX Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
XX liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
XX citrate; glutamate; buffer; antidiabetic; type II diabetes.
XX
XX Homo sapiens.
XX Synthetic.
XX US2001043934-A1.
XX
XX 22-NOV-2001.
XX
XX 09-JAN-1998; 98US-00005262.
XX
XX 08-JAN-1997; 97US-0035140P.
XX
XX (LIT/A) L'ITALIEN J.
XX (MUSU/) MUSUNURI S.
XX (RUBY/) RUBY K.
XX
XX L'Italien J, Musunuri S, Ruby K;
XX
XX WPI; 2002-163554/21.
XX
XX New pharmaceutical formulation useful for treating patients with type II
XX diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
XX a buffer.
XX
XX Disclosure; Page; 19pp; English.
XX
XX The present invention describes a liquid pharmaceutical formulation (A)
XX comprising (w/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
XX polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
XX glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
XX commercial package containing the liquid pharmaceutical formulation (A).
XX The package comprises a borosilicate glass vial having an open end, a
XX stopper for multise compatible with the amylin and/or amylin agonist
XX fixed in the open end of the vial and an aluminum band to retain the
XX stopper in the far end of the vial. The package also comprises a
XX cartridge for use in a pen injector. (A) has antidiabetic activity and
XX can be used in the treatment of patients with type II diabetes. The
XX formulation comprises amylin agonist which is biologically active, has a
XX reduced tendency to form aggregates in water or at a pressure of greater
XX than 2 psi and has a reduced tendency to precipitate in the presence of
XX NaCl compared to human amylin. The formulation maintains stability upon
XX storage under refrigerated or room-temperature conditions. The
XX formulation retains short-term mixing compatibility with insulin and
XX results in improved stability of the hormone and the patients no longer
XX need to refrigerate the vial of insulin in use. The present sequence
XX represents a human amylin peptide analogue, which can be used as an
XX amylin agonist in the present invention. N.B. The present sequence is not
XX given in the present specification but is derived from the 37 amino acid
XX human amylin as stated in the invention
XX
XX Sequence 37 AA;
SQ

Query Match 99.5%; Score 201; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

/note= "C-terminal amide"

FT XX US2004097415-A1.
PN XX 20-MAY-2004.
PD XX 18-AUG-2003; 2003US-00643681.
XX XX 07-SEP-1993; 93US-00118381.
XX XX 07-SEP-1994; 94US-00302069.
PR 22-MAY-2000; 2000US-00576062.
XX XX (KOLT/) KOLTERMAN O G.
PA (YOUN/) YOUNG A A.
PA (RINK/) RINK T J.
PA (BROW/) KEATING BROWN K A.
XX XX
PI Koltzman OG, Young AA, Rink TJ, Keating Brown KA;
DR WPI, 2004-389180/36.
XX XX
PT Use of amylin agonist for reducing gastric motility, delaying gastric
PT emptying and for treating postprandial dumping syndrome and postprandial
PT hyperglycemia.
XX XX
PS Disclosure; SEQ ID NO 18; 35pp; English.
XX XX
CC The present invention is directed to novel methods for reducing gastric
CC motility and delaying gastric emptying which comprises the administration
CC of an amylin or an amylin agonist. The invention is useful for treating
CC postprandial dumping syndrome, postprandial hyperglycemia and reducing
CC gastric motility associated with gastrointestinal disorders such as spasm
CC or delaying gastric emptying in a mammal undergoing a gastrointestinal
CC diagnostic procedure such as radiological examination and magnetic
CC resonance imaging. The invention is also useful for lowering postprandial
CC blood glucose levels during treatment of diabetes. The present sequence
CC is human amylin agonist peptide analogue. This sequence is used in the
CC invention.
XX XX
SQ Sequence 37 AA;
XX XX

Query Match 99.5%; Score 201; DB 8; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 KCNTATCATQRLANFLVHSSNNGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTVGSNTY 37

RESULT 33
AD051021
ID AD051021 standard; peptide; 37 AA.
XX XX
AC AD051021;
XX XX
DT 18-NOV-2004 (first entry)
XX XX
DE Human amylin agonist peptide analogue #7.
XX XX
KW Gastric motility; delay gastric emptying; amylin; agonist;
KW postprandial dumping syndrome; postprandial hyperglycemia;
KW gastrointestinal disorder; spasm; radiological examination;
KW magnetic resonance imaging; diabetes; therapy; human.
XX XX
OS Homo sapiens.
XX XX
FH Key Location/Qualifiers
FT Modified-site 37
FT /note= "C-terminal amide"
XX XX
PN US2004097415-A1.
XX XX

PD 20-MAY-2004.
XX XX
XX 18-AUG-2003; 2003US-00643681.
XX XX
PR 07-SEP-1993; 93US-00118381.
XX XX 07-SEP-1994; 94US-00302069.
PR 22-MAY-2000; 2000US-00576062.
XX XX
PA (KOLT/) KOLTERMAN O G.
PA (YOUN/) YOUNG A A.
PA (RINK/) RINK T J.
PA (BROW/) KEATING BROWN K A.
XX XX
PI Koltzman OG, Young AA, Rink TJ, Keating Brown KA;
DR WPI, 2004-389180/36.
XX XX
PT Use of amylin agonist for reducing gastric motility, delaying gastric
PT emptying and for treating postprandial dumping syndrome and postprandial
PT hyperglycemia.
XX XX
PS Disclosure; SEQ ID NO 7; 35pp; English.
XX XX
CC The present invention is directed to novel methods for reducing gastric
CC motility and delaying gastric emptying which comprises the administration
CC of an amylin or an amylin agonist. The invention is useful for treating
CC postprandial dumping syndrome, postprandial hyperglycemia and reducing
CC gastric motility associated with gastrointestinal disorders such as spasm
CC or delaying gastric emptying in a mammal undergoing a gastrointestinal
CC diagnostic procedure such as radiological examination and magnetic
CC resonance imaging. The invention is also useful for lowering postprandial
CC blood glucose levels during treatment of diabetes. The present sequence
CC is human amylin agonist peptide analogue. This sequence is used in the
CC invention.
XX XX
SQ Sequence 37 AA;
XX XX

Query Match 99.5%; Score 201; DB 8; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 KCNTATCATQRLANFLVHSSNNGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTVGSNTY 37

RESULT 34
ADV92840
ID ADV92840 standard; peptide; 37 AA.
XX XX
AC ADV92840;
XX XX
DT 24-MAR-2005 (first entry)
XX XX
DE Amylin peptide amino acid sequence - SEQ ID 260.
XX XX
KW delivery mechanism; viral infections; virulence; bacterial infection;
KW antibacterial; amylin.
XX XX
OS Unidentified.
XX XX
PN WO2005000222-A2.
XX XX
PD 06-JAN-2005.
XX XX
PF 28-MAY-2004; 2004WO-US017456.
XX XX
PR 30-MAY-2003; 2003US-0474233P.
XX XX
PA (AMYL-) AMYLIN PHARM INC.
XX XX
PI Ong JTH, Stejsko G, Jennings R;
XX XX

DR MPI; 2005-075434/08.
XX
XX Pharmaceutical composition for transmuscosal administration of a bioactive
PT peptide/protein of interest, e.g. glucagon-like peptide-1, comprises the
PT peptide/protein of interest, a cationic polypeptide acid, and a compatible
PT buffer.
XX
XX Disclosure; SEQ ID NO 260; 64pp; English.
XX
XX The invention comprises a pharmaceutical composition for transmuscosal
CC administration of a bioactive peptide/protein (e.g. exendin, PYY, GLP-1
CC or amylin peptide/protein) of interest. The composition of the invention
CC is useful for the transmuscosal administration of a bioactive peptide or
CC protein and is useful for treating or preventing viral or bacterial
CC diseases in humans. The present amino acid sequence represents an amylin
CC peptide that is used in the exemplification of the invention.
XX
XX Sequence 37 AA;
SQ
Query Match 99.5%; Score 201; DB 9; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
RESULT 35
AEBI7939
ID AEBI7939 standard; peptide; 37 AA.
XX
XX AEBI7939;
AC
XX 08-SEP-2005 (first entry)
DT
XX Human amylin agonist, pramlintide peptide SEQ ID NO: 17.
DE
XX Pharmacological; weight loss; obesity; anorectic; nutritional disorder;
KW hyperglycemia; antidiabetic; metabolic disorder; antilipemic;
KW diabetes mellitus; metabolic disorder; glucose regulating peptide;
KW amylin agonist; pramlintide.
XX
XX Homo sapiens.
OS
XX
FH Key Location/Qualifiers
FT Disulfide-bond 2..7
FT Modified-site 37
FT /note="Amidated"
XX
XX US2005143303-A1.
PN
XX 30-JUN-2005.
PD
XX 18-NOV-2004; 2004US-00991597.
PF
XX 26-DEC-2003; 2003US-0532337P.
PR
XX (NASTECH PHARM CO INC.
PA (NASTECH PHARM CO INC.
XX
XX Quay SC, Costantino HR;
PI
XX MPI; 2005-496434/50.
DR
XX New transmuscosal glucose-regulating peptide (GRP) formulation, useful for
PT treating e.g. obesity, hyperglycemia, dyslipidemia and diabetes mellitus
PT and for inducing satiety in an individual and to promote weight-loss in
PT an individual.
XX
XX Claim 7; SEQ ID NO 17; 55pp; English.
XX
XX The present invention relates to pharmaceutical compositions and methods
CC comprising at least one glucose regulating peptide (GRP) such as amylin,

CC an amylin analog (such as pramlintide), glucagon-like peptide-1 (GLP-1),
CC exendin-3 or exendin-4 and one or more mucosal delivery-enhancing agents.
CC The formulation or the method is useful for treating variety of diseases
CC and conditions in mammalian subjects including obesity, hyperglycemia,
CC dyslipidemia and diabetes mellitus and for inducing satiety in an
CC individual and to promote weight-loss in an individual. The invention is
CC also useful in protein therapy. The present sequence is the human
CC pramlintide peptide, which serves as an amylin agonist peptide.
XX
XX Sequence 37 AA;
SQ
Query Match 99.5%; Score 201; DB 9; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.9e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
RESULT 36
AAW22541
ID AAW22541 standard; peptide; 37 AA.
XX
XX AAW22541;
AC
XX 12-OCT-1997 (first entry)
DT
XX Amylin agonist peptide 11-Lys-25,28,29-Pro-h-amylin.
DE
XX appetite regulation; amylin agonist; hybrid; CCK; cholecystokinin.
KW Synthetic.
OS
XX
FH Key Location/Qualifiers
FT Disulfide-bond 2..7
FT Modified-site 37
FT /note="Tyr-NH2"
XX
XX WO9640196-A1.
PN
XX 19-DEC-1996.
PD
XX 06-JUN-1996; 96WO-US009937.
PF
XX 07-JUN-1995; 95US-00477727.
PR
XX (AMYLIN PHARM INC.
PA (AMYLIN PHARM INC.
XX
XX Rink TJ, Young AA, Beeley NR, Prickett KS;
PI MPI; 1997-051885/05.
DR
XX
XX Compositions comprising amylin and cholecystokinin agonists - useful for
PT reducing food intake, suppressing appetite and controlling body weight.
XX
XX Claim 20, 49; Page 46, 54; 66pp; English.
PS
XX The patent discloses a composition which can be used to reduce or
CC suppress food intake, control appetite or control body weight in a
CC mammal, comprising an amylin agonist and a cholecystokinin (CCK) agonist
CC admixed in a form suitable for therapeutic administration. Also disclosed
CC are new hybrid peptides comprising an amylin agonist peptide and a CCK
CC agonist peptide covalently linked e.g. by the group -R1-R2-R3-R4-R5-
CC where R1 = CONH(CH2)n, COO(CH2)n or CO(CH2)n; R2 = OCO(CH2)n, NHCO(CH2)n,
CC OCOCH2H4 (ortho, meta or para linked), COOCH2H4 or NHCOCH2H4 (both ortho,
CC meta or para linked/substituted), CONHCH2H4H4H4 (ortho, meta or para
CC substituted), O-X or NH-X; R3 = CH2, CF2, CO, CS or CNH; R4 = O or NH; R5
CC = (CH2)NHCO, (CH2)HCO or (CH2)HCO; n = 1-6; and X = any amino acid
CC linked via its carboxyl group. Administration of amylin and CCK agonists
CC in conjunction produces a greater effect than either administered alone;
CC e.g. 0.1 microgram/kg of each peptide causes a substantial reduction of
CC food intake about equivalent to that seen with 100 microgram/kg of either

CC peptide alone. The present sequence represents a preferred amylin agonist
 CC peptide which can be used as a component of the hybrid peptide
 XX
 SQ Sequence 37 AA;

Query Match 98.5%; Score 199; DB 2; Length 37;
 Best Local Similarity 97.3%; Pred. No. 1.7e-20;
 Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37
 |||||
 DB 1 KCNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37

RESULT 37
 AAR29204
 ID AAR29204 standard; protein; 36 AA.
 XX
 AC AAR29204;

XX 25-MAR-2003 (revised)
 DT 20-APR-1993 (first entry)
 XX

DE Des-Lys(1)Pro(25,28,29)-h-amylin for treating anorexia.

KM Anorexia; cachexia; adipose; amylin.

OS Homo sapiens.

PN WO9220367-A1.

PD 26-NOV-1992.

PF 23-MAY-1992; 92WO-US004357.

PR 24-MAY-1991; 91US-00704995.

PR 03-APR-1992; 92US-00862500.

PA (AMYL-) AMYLIN PHARM INC.

PI Rink TV, Young AA;

DR WPI; 1992-415470/50.

XX Use of amylin and opt. insulin for treating anorexia - increases plasma
 PT amylin and/or insulin levels, also for treating cachexia conditions,
 PT adipose tissue deficiency etc.
 XX

PS Disclosure; Page 16; 19pp; English.

XX Treatment of a patient with anorexia or related condition comprises
 CC admin. of amylin or an analogue in an amt. sufficient to increase the
 CC amylin level in the plasma of the patient. The pref. amylin analogues are
 CC given in AAR29197-222. Treating a patient deficient in adipose tissue
 CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
 CC ratio sufficient to increase adipose tissue. Typical dosage units contain
 CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
 CC 2003 to correct PN field.)
 XX

SQ Sequence 36 AA;

Query Match 97.5%; Score 197; DB 2; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37
 |||||
 DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 36

RESULT 38
 AAR37793
 ID AAR37793 standard; peptide; 36 AA.

XX AAR37793;

AC 25-MAR-2003 (revised)
 XX 07-SEP-1993 (first entry)
 DT
 DT
 DE (Des-Lys1), Pro25, Pro28, Pro29 human amylin analogue.

KM Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.

OS Homo sapiens.

Key Location/Qualifiers

FT Disulfide-bond 1..6

FT Misc-difference 24 /note= "Pro replaces wild-type Ala"

FT Misc-difference 27 /note= "Pro replaces wild-type Ser"

FT Misc-difference 28 /note= "Pro replaces wild-type Ser"

FT Modified-site 36 /note= "amidated"

PN WO9310146-A1.

PD 27-MAY-1993.

PF 19-NOV-1992; 92WO-US009842.

PR 19-NOV-1991; 91US-00794266.

PA (AMYL-) AMYLIN PHARM INC.

PI Gaeta LSL, Jones H, Albrecht E;

DR WPI; 1993-182488/22.

XX New amylin agonist peptide(s) - used for treatment and prevention of
 PT hypoglycaemia and diabetes mellitus.
 PT
 XX

ES Claim 44; Fig 1 and Page 23; 43pp; English.

XX This peptide is an example of amylin agonists of the invention which can
 CC be used as hyperglycaemics. The peptide is an analogue of human amylin
 CC which mimics the effects of the wild-type hormone. Preferred peptides are
 CC used in admixture with insulin for the treatment of diabetes mellitus or
 CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
 CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX

SQ Sequence 36 AA;

Query Match 97.5%; Score 197; DB 2; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 37
 |||||
 DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNGSNTY 36

RESULT 39
 AAY22442
 ID AAY22442 standard; peptide; 36 AA.
 XX
 AC AAY22442;

XX 28-SEP-1999 (first entry)
 DT
 DT
 DE Des-Lys1, Pro25, Pro28, Pro29 amylin analogue.

KM Amylin agonist; human; insulin; diabetes; post-prandial glucose level;

KW therapy; mutein.
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT Misc-difference 24
 FT Misc-difference 27 /label= A25P
 FT Misc-difference 28 /label= S28P
 FT Misc-difference 28 /label= S29P
 XX
 XX WO9934822-A1.
 XX
 PD 15-JUL-1999.
 XX
 PF 09-JAN-1998; 98WO-US000288.
 XX
 PR 09-JAN-1998; 98WO-US000288.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI L'italian J, Musunuri S, Ruby C;
 XX
 DR WPI; 1999-458254/38.
 XX
 PT Stabilized liquid formulation for treatment of insulin-dependent diabetes
 PT mellitus.
 PS
 XX Disclosure; Page; 71pp; English.
 XX
 CC This sequence represents a human amylin analogue, that acts as a amylin
 CC agonist. The invention relates to a liquid pharmaceutical formulation
 CC (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10%
 CC carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or
 CC glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with
 CC insulin, for treatment of diabetes, specifically to reduce post-prandial
 CC increases in glucose levels of the blood. In these formulations, (I) is
 CC stabilised, especially against deamidation and peptide bond hydrolysis
 CC for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without
 CC addition of a separate stabiliser. They also retain short-term (up to 24
 CC hr) stability when combined with insulin, allowing both agents to be
 CC administered together, reducing the number of injections required. Note:
 CC This sequence was created by the indexer from information given in the
 CC specification
 CC
 CC Sequence 36 AA;
 SQ
 QY
 Query Match 97.5%; Score 197; DB 2; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
 RESULT 40
 AAM90145
 ID AAM90145 standard; peptide; 36 AA.
 AC AAM90145;
 XX
 XX 15-MAR-1999 (first entry)
 DT
 XX
 DE Human amylin agonist peptide des-1-Lys25,28,29-Pro-amylin.
 XX
 XX Amylin; human; agonist; gastritis; gastric ulceration; treatment;
 KW non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
 KW pain; fever; inflammation; arthritis; hypercoagulation.
 XX

OS Homo sapiens.
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT WO9850059-A1.
 XX
 PN 12-NOV-1998.
 PD
 XX
 PF 06-MAY-1998; 98WO-US0009089.
 XX
 PR 06-MAY-1997; 97US-00851965.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI Young A, Gedulin B, Beynon GW,
 XX
 DR WPI; 1999-059652/05.
 XX
 PT Method for treating or preventing gastritis - comprises administering
 PT amylin or amylin agonist, except calcitonin.
 XX
 PS Claim 6; Page 42; 48pp; English.
 XX
 CC This invention relates to a method for treating or preventing gastritis
 CC or gastric ulceration which comprises administering amylin or an amylin
 CC agonist. Amylin administration is not carried out intra-
 CC cerebroventricularly. The specification describes a method for treating
 CC or preventing a condition for which a non-steroidal anti-inflammatory
 CC agent (NSAID) is indicated, comprising administering amylin or amylin
 CC agonist, which is not calcitonin, together with NSAID and also a
 CC composition comprising an amylin or an amylin agonist or their salts,
 CC except calcitonin and a NSAID in a carrier. The amylin composition is
 CC used to treat humans by administering it subcutaneously, intravenously or
 CC by nasal, oral, pulmonary, transdermal and buccal routes. The method is
 CC also used to treat pain, fever, inflammation, arthritis, hypercoagulation
 CC and other condition where an NSAID would be indicated. The present
 CC sequence is an example of an agonist used in the method
 CC
 CC Sequence 36 AA;
 SQ
 QY
 Query Match 97.5%; Score 197; DB 2; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
 RESULT 41
 AAB18581
 ID AAB18581 standard; peptide; 36 AA.
 AC AAB18581;
 XX
 XX 15-JAN-2001 (first entry)
 DT
 XX
 DE Amino acid sequence of an amylin agonist analogue compound.
 XX
 XX Amylin agonist; amylin; gastric motility; gastric emptying;
 KW postprandial dumping syndrome; postprandial hyperglycemia;
 KW gastrointestinal diagnostic procedure; gastrointestinal disorder; spasm;
 KW acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT Modified-site 36 /note= "amidated residue"
 FT
 XX

FN US6114304-A.
 XX
 PD 05-SEP-2000.
 XX
 PF 07-SEP-1994; 94US-00302069.
 XX
 PR 07-SEP-1993; 93US-00118381.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI Young AA, Rink TJ, Brown KAK, Kolterman OG;
 XX
 DR WPI; 2000-601336/57.
 XX
 PT Treating gastrointestinal disorder e.g. spasm by reducing gastric
 PT motility or delaying gastric emptying; postprandial dumping syndrome or
 PT postprandial hyperglycemia, by administering amylin or amylin agonist.
 XX
 PS Disclosure; Col 41-42; 50pp; English.
 XX
 CC The present sequence represents an amylin agonist analogue compound.
 CC Amylin or amylin agonists are administered for reducing gastric motility
 CC or delaying gastric emptying, and for treating postprandial dumping
 CC syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
 CC mammal. The peptides are used to reduce gastric motility or for delaying
 CC gastric emptying in a mammal undergoing gastrointestinal diagnostic
 CC procedures, such as radiological examination or magnetic resonance
 CC imaging. They are also used for reducing gastric motility in
 CC gastrointestinal disorder, especially spasm, which is associated with a
 CC disorder of acute diverticulitis or disorders of biliary tract or
 CC sphincter of oddi. They are also used to treat postprandial dumping
 CC syndrome or postprandial hyperglycemia
 XX
 SQ Sequence 36 AA;
 Query Match 97.5%; Score 197; DB 3; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNGSNTY 37
 Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNGSNTY 36
 RESULT 42
 ABB05495
 ID ABB05495 standard; peptide; 36 AA.
 XX
 AC ABB05495;
 XX
 DT 19-APR-2002 (first entry)
 XX
 DE Human amylin agonist des-Ilys25,28,29Pro-h-amylin.
 XX
 KW Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
 KW liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
 KW citrate; glutamate; buffer; antidiabetic; type II diabetes.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 FN US2001043934-A1.
 XX
 PD 22-NOV-2001.
 XX
 PE 09-JAN-1998; 98US-00005262.
 XX
 PR 08-JAN-1997; 97US-0035140P.
 XX
 PA (LITA/) L'ITALIEN J.
 PA (MOSU/) MOSUNURI S.
 PA (RUBY/) RUBY K.
 XX

PI L'italien J, Musunuri S, Ruby K;
 XX
 DR WPI; 2002-163554/21.
 XX
 PT New pharmaceutical formulation useful for treating patients with type II
 PT diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
 PT a buffer.
 XX
 PS Disclosure; Page; 19pp; English.
 XX
 CC The present invention describes a liquid pharmaceutical formulation (A)
 CC comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
 CC polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
 CC glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
 CC commercial package containing the liquid pharmaceutical formulation (A).
 CC The package comprises a borosilicate glass vial having an open end, a
 CC stopper for multisealable with the amylin and/or amylin agonist
 CC fixed in the open end of the vial and an aluminum band to retain the
 CC stopper in the far end of the vial. The package also comprises a
 CC cartridge for use in a pen injector. (A) has antidiabetic activity and
 CC can be used in the treatment of patients with type II diabetes. The
 CC formulation comprises amylin agonist which is biologically active, has a
 CC reduced tendency to form aggregates in water or at a pressure of greater
 CC than 2 psi and has a reduced tendency to precipitate in the presence of
 CC NaCl compared to human amylin. The formulation maintains stability upon
 CC storage under refrigerated or room-temperature conditions. The
 CC formulation retains short-term mixing compatibility with insulin and
 CC results in improved stability of the hormone and the patients no longer
 CC need to refrigerate the vial of insulin in use. The present sequence
 CC represents a human amylin peptide analogue, which can be used as an
 CC amylin agonist in the present invention. N.B. The present sequence is not
 CC given in the present specification but is derived from the 37 amino acid
 CC human amylin as stated in the invention
 XX
 SQ Sequence 36 AA;
 Query Match 97.5%; Score 197; DB 5; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNGSNTY 37
 Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNGSNTY 36
 RESULT 43
 ADI36180
 ID ADI36180 standard; peptide; 36 AA.
 XX
 AC ADI36180;
 XX
 DT 15-APR-2004 (first entry)
 XX
 DE Human amylin agonist analogue #9.
 XX
 KW Gastric motility; gastric emptying; amylin agonist; therapy; diagnostic;
 KW antidiabetic; hypoglycemia; human.
 XX
 OS Homo sapiens.
 OS Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT Modified-site 36
 FT /note="Amidated tyrosine"
 XX
 FN US608029-B1.
 XX
 PD 19-AUG-2003.
 XX
 PE 22-MAY-2000; 2000US-00576062.
 XX
 PR 07-SEP-1993; 93US-00118381.
 XX
 PR 07-SEP-1994; 94US-00302069.
 XX

XX (AMYL-) AMYLIN PHARM INC.
 PA Kolterman OG, Young AA, Rink TJ, Keating Brown KA;
 XX WPI; 2004-118064/12.
 XX
 PT Reducing gastric motility or delaying gastric emptying in a mammal,
 PT useful for treating post-prandial hyperglycemia, comprises administering
 an amylin or an amylin agonist.
 XX
 PS Disclosure; SEQ ID NO 10; 51bp; English.
 XX
 CC The present invention is directed to novel methods for reducing gastric
 CC motility and delaying gastric emptying, comprising the administration of
 CC an amylin or an amylin agonist. The invention is useful for reducing
 CC gastric motility and delaying gastric emptying for therapeutic and
 CC diagnostic purposes. The invention is also useful for treating conditions
 CC associated with elevated, inappropriate or undesired post-prandial blood
 CC glucose levels and treating ingestion of a toxin. The present sequence is
 CC human amylin agonist analogue.
 XX
 SQ Sequence 36 AA;
 XX
 QY Query Match 97.5%; Score 197; DB 8; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 DB 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
 XX
 RESULT 44
 ADO51024
 ID ADO51024 standard; peptide; 36 AA.
 XX
 AC ADO51024;
 XX
 DT 18-NOV-2004 (first entry)
 XX
 DE Human amylin agonist peptide analogue #10.
 XX
 KW Gastric motility; delay gastric emptying; amylin; agonist;
 KW postprandial dumping syndrome; postprandial hyperglycemia;
 KW gastrointestinal disorder; spasm; radiological examination;
 KW magnetic resonance imaging; diabetes; therapy; human.
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 36
 FT /note= "C-terminal amide"
 XX
 PN US2004097415-A1.
 XX
 PD 20-MAY-2004.
 XX
 PF 18-AUG-2003; 2003US-00643681.
 XX
 PR 07-SEP-1993; 93US-00118381.
 PR 07-SEP-1994; 94US-00302069.
 PR 22-MAY-2000; 2000US-00576062.
 XX
 PA (KOLT/) KOLTERMAN O G.
 PA (YOUN/) YOUNG A A.
 PA (RINK/) RINK T J.
 PA (BROW/) KEATING BROWN K A.
 XX
 PI Kolterman OG, Young AA, Rink TJ, Keating Brown KA;
 XX WPI; 2004-389180/36.
 XX

PT Use of amylin agonist for reducing gastric motility, delaying gastric
 PT emptying and for treating postprandial dumping syndrome and postprandial
 PT hyperglycemia.
 XX
 PS Disclosure; SEQ ID NO 10; 35bp; English.
 XX
 CC The present invention is directed to novel methods for reducing gastric
 CC motility and delaying gastric emptying which comprises the administration
 CC of an amylin or an amylin agonist. The invention is useful for treating
 CC postprandial dumping syndrome, postprandial hyperglycemia and reducing
 CC gastric motility associated with gastrointestinal disorders such as spasm
 CC or delaying gastric emptying in a mammal undergoing a gastrointestinal
 CC diagnostic procedure such as radiological examination and magnetic
 CC resonance imaging. The invention is also useful for lowering postprandial
 CC blood glucose levels during treatment of diabetes. The present sequence
 CC is human amylin agonist peptide analogue. This sequence is used in the
 CC invention.
 XX
 SQ Sequence 36 AA;
 XX
 QY Query Match 97.5%; Score 197; DB 8; Length 36;
 Best Local Similarity 100.0%; Pred. No. 3.2e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 DB 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
 XX
 RESULT 45
 AAR37794
 ID AAR37794 standard; peptide; 36 AA.
 XX
 AC AAR37794;
 XX
 DT 25-MAR-2003 (revised)
 DT 07-SEP-1993 (first entry)
 XX
 DE (Dee-Lys1), Pro25, Val26, Pro28, Pro29 human amylin analogue.
 XX
 KW Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Disulfide-bond 1..6
 FT Misc-difference 24
 FT Misc-difference 25 /note= "Pro replaces wild-type Ala"
 FT Misc-difference 27 /note= "Val replaces wild-type Ile"
 FT Misc-difference 28 /note= "Pro replaces wild-type Ser"
 FT Misc-difference 28 /note= "Pro replaces wild-type Ser"
 FT Modified-site 36
 FT /note= "amidated"
 XX
 PN WO9310146-A1.
 XX
 PD 27-MAY-1993.
 XX
 PR 19-NOV-1992; 92WO-US009842.
 PR 19-NOV-1991; 91US-00794266.
 XX
 PA (AMYL-) AMYLIN PHARM INC.
 XX
 PI Gaeta LSL, Jones H, Albrecht E;
 XX WPI; 1993-182488/22.
 XX
 DR New amylin agonist peptide(s) - used for treatment and prevention of
 XX

PT hypoglycaemia and diabetes mellitus.
XX
PS Example 16; Fig 1 and Page 23; 43pp; English.
XX
CC This peptide is an example of amylin agonists of the invention which can
CC be used as hyperglycaemic. The peptide is an analogue of human amylin
CC which mimics the effects of the wild-type hormone. Preferred peptides are
CC used in admixture with insulin for the treatment of diabetes mellitus or
CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
CC field.)
XX
SQ Sequence 36 AA;
XX
Query Match 97.0%; Score 196; DB 2; Length 36;
Best Local Similarity 97.2%; Pred. No. 4.4e-20;
Matches 35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
QY 2 CNTATCATORLANFLVHSSNNFGPIIPPTNVGSNTY 37
DB 1 CNTATCATORLANFLVHSSNNFGPIIPPTNVGSNTY 36
XX
RESULT 46
AAM22579
ID AAM22579 standard; peptide; 37 AA.
XX
AC AAM22579;
XX
XX 12-OCT-1997 (first entry)
XX
DE Amylin agonist/CKK agonist hybrid peptide.
XX
KW appetite regulation; amylin agonist; hybrid; CKK; cholecystokinin.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Modified-site 37 /note="Tyr-NH2"
XX
XX
XX MO9640196-A1.
XX
PD 19-DEC-1996.
XX
XX 06-JUN-1996; 96WO-US009937.
XX
XX 07-JUN-1995; 95US-00477727.
XX
XX (AMYL-) AMYLIN PHARM INC.
XX
PI Rink TU, Young AA, Beeley NR, Prickett KS;
XX
XX WPI; 1997-051885/05.
XX
XX
XX Compositions comprising amylin and cholecystokinin agonists - useful for
XX reducing food intake, suppressing appetite and controlling body weight.
XX
XX Claim 81; Page 61; 66pp; English.
XX
XX The patent discloses a composition which can be used to reduce or
XX suppress food intake, control appetite or control body weight in a
XX mammal, comprising an amylin agonist and a cholecystokinin (CKK) agonist
XX admixed in a form suitable for therapeutic administration. Also disclosed
XX are new hybrid peptides comprising an amylin agonist peptide joined to a
XX CKK agonist via a covalent linking group (see AAM22540 - AAM22551).
XX Further disclosed are new hybrid peptides which incorporate features of
XX amylin agonist peptides and CKK agonist peptides but which do not employ
XX a linking group. These peptides are of general formula R1-C-R2-C-R3-R4-
XX R5, in which R1 = a free N-terminus or an amidated N-terminus or amidated
XX lysine (L), where amidation is with acetamide, propionamide, butyramide,
XX isobutyramide or isocaproamide; R2 = an amino acid sequence selected from
XX NTAT, GTAT, NTVT, NMAI, SNLSI, ASLSI and GNLST; R3 = an amino acid

CC sequence selected from ATORLANFLVH and VLKLSQELHK; R4 = an amino acid
CC sequence selected from SSNNFGPIIP and LOTYPR; and R5 = an amino acid
CC sequence selected from DYNWMDNF-NH2, TNGWMDNF-NH2, TNGWMDNF-NH2, TNGWMDNF-
CC -NH2, TNGWMDNF-NH2, TNGWMDNF-NH2, TNGWMDNF-NH2, TNGWMDNF-NH2 and TNGWMDNF-
CC -NH2. Administration of amylin and CKK agonists in conjunction produces a
CC greater effect than either administered alone; e.g. 0.1 microgram/kg of
CC each peptide causes a substantial reduction of food intake about
CC equivalent to that seen with 100 microgram/kg of either peptide alone.
CC The present sequence represents one of 10 specific examples of hybrid
CC peptides falling within the scope of the above formula
XX
SQ Sequence 37 AA;
XX
Query Match 97.0%; Score 196; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 4.5e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1 KNTATCATORLANFLVHSSNNFGPIIPPTNVGSNTY 37
DB 1 KNTATCATORLANFLVHSSNNFGPIIPPTNVGSNDY 37
XX
RESULT 47
ADH22050
ID ADH22050 standard; peptide; 36 AA.
XX
AC ADH22050;
XX
XX 11-MAR-2004 (first entry)
XX
XX
DE Amylin analogue pramlintide, SEQ ID NO:847.
XX
XX Fusion protein; human serum albumin; HSA; therapeutic protein;
XX shelf-life; in vitro biological activity; in vivo biological activity;
XX metabolic disorder; endocrine disorder; diabetes; type 1; type 2;
XX diabetes-related condition; hyperglycaemia; neural disorder; neuropathy;
XX retinopathy; cardiovascular disorder; heart disease; renal disorder;
XX obesity; glucose level maintenance; weight loss; antidiabetic; cardiac;
XX anorectic; ophthalmological; gene therapy.
XX
XX Homo sapiens.
XX
XX WO2003059934-A2.
XX
XX
XX 24-JUL-2003.
XX
XX 23-DEC-2002; 2002WO-US040892.
XX
XX 21-DEC-2001; 2001US-0341811P.
XX
XX 24-JAN-2002; 2002US-0350358P.
XX
XX 26-FEB-2002; 2002US-0359370P.
XX
XX 28-FEB-2002; 2002US-0360000P.
XX
XX 27-MAR-2002; 2002US-0367500P.
XX
XX 08-APR-2002; 2002US-0370227P.
XX
XX 10-MAY-2002; 2002US-0378950P.
XX
XX 24-JUL-2002; 2002US-0398008P.
XX
XX 09-AUG-2002; 2002US-0402131P.
XX
XX 13-AUG-2002; 2002US-0402708P.
XX
XX 18-SEP-2002; 2002US-0411355P.
XX
XX 02-OCT-2002; 2002US-0414984P.
XX
XX 11-OCT-2002; 2002US-0417611P.
XX
XX 23-OCT-2002; 2002US-0420246P.
XX
XX 05-NOV-2002; 2002US-0423622P.
XX
XX (HMDA-) HUMAN GENOME SCI INC.
XX
XX
XX Rosen CA, Haseltine WA;
XX
XX WPI; 2003-598501/56.
XX
XX
XX New albumin fusion protein, useful for preparing a composition for
XX treating diabetes mellitus.

PS Disclosure; SEQ ID NO 847; 1086pp; English.

CC The invention relates to fusion proteins comprising human serum albumin
 CC (Ald21330) and a therapeutic polypeptide such as a therapeutic protein,
 CC antibody or peptide or their variants or fragments. The therapeutic
 CC protein may be fused to the N-terminus, the C-terminus or both termini of
 CC albumin via a linker. The albumin component of the fusion proteins
 CC prolongs the shelf-life and the in vitro and vivo biological activity of
 CC the proteins compared with those of the corresponding therapeutic
 CC proteins on their own. The invention also relates to nucleic acids
 CC encoding albumin fusion proteins, vectors and host cells comprising an
 CC albumin fusion protein nucleic acid, compositions and kits comprising an
 CC albumin fusion protein, the method of extending the shelf-life of a
 CC therapeutic protein by fusion with albumin, and the treatment of disease
 CC using an albumin fusion protein. The albumin fusion proteins may be used
 CC in the treatment of metabolic/endocrine disorders, diabetes and diabetes-
 CC related conditions. Specifically the albumin fusion proteins may be used
 CC to treat type 1 and type 2 diabetes, hyperglycaemia, neural disorders
 CC (especially neuropathy), retinopathy, cardiovascular disorders
 CC (especially heart disease, renal disorders and obesity. The proteins may
 CC also be used in a method of maintaining a basal glucose level in a
 CC patient and in a method for losing weight. The present sequence is
 CC related to the invention.

XX Sequence 36 AA;

Query Match 96.5%; Score 195; DB 7; Length 36;
 Best Local Similarity 100.0%; Pred. No. 6.1e-20;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNT 36
 |||||
 DB 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNT 36

RESULT 48

AAR29205
 ID AAR29205 standard; protein; 37 AA.

AC AAR29205;

DT 25-MAR-2003 (revised)

DT 20-APR-1993 (first entry)

XX Leu(23)Pro(25)Val(26)Pro(28,29)-h-amylin for treating anorexia.

XX Anorexia; cachexia; adipose; amylin.

XX Homo sapiens.

XX WO9220367-A1.

XX 26-NOV-1992.

PD 23-MAY-1992; 92MO-US004357.

XX 24-MAY-1991; 91US-00704995.

PR 03-APR-1992; 92US-00862500.

XX (AMYL-) AMYLIN PHARM INC.

XX Rink TJ, Young AA;

XX WPI, 1992-415470/50.

XX Use of amylin and opt. insulin for treating anorexia - increases plasma
 PT amylin and/or insulin levels, also for treating cachexia conditions,
 PT adipose tissue deficiency etc.

PS Disclosure; Page 16; 19pp; English.

XX Treatment of a patient with anorexia or related condition comprises
 CC admin. of amylin or an analogue in an amt. sufficient to increase the

CC amylin level in the plasma of the patient. The pref. amylin analogues are
 CC given in AAR29197-222. Treating a patient deficient in adipose tissue
 CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
 CC ratio sufficient to increase adipose tissue. Typical dosage units contain
 CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
 CC 2003 to correct PN field.)

XX Sequence 37 AA;

Query Match 96.5%; Score 195; DB 2; Length 37;
 Best Local Similarity 94.6%; Pred. No. 6.3e-20;
 Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNTY 37
 |||||
 DB 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNTY 37

RESULT 49

AAR29211
 ID AAR29211 standard; protein; 37 AA.

AC AAR29211;

DT 25-MAR-2003 (revised)

DT 20-APR-1993 (first entry)

XX Ile(17)Leu(23)Pro(25,28,29)-h-amylin for treating anorexia.

XX Anorexia; cachexia; adipose; amylin.

XX Homo sapiens.

XX WO9220367-A1.

XX 26-NOV-1992.

PD 23-MAY-1992; 92MO-US004357.

XX 24-MAY-1991; 91US-00704995.

PR 03-APR-1992; 92US-00862500.

XX (AMYL-) AMYLIN PHARM INC.

XX Rink TJ, Young AA;

XX WPI, 1992-415470/50.

XX Use of amylin and opt. insulin for treating anorexia - increases plasma
 PT amylin and/or insulin levels, also for treating cachexia conditions,
 PT adipose tissue deficiency etc.

PS Disclosure; Page 16; 19pp; English.

XX Treatment of a patient with anorexia or related condition comprises
 CC admin. of amylin or an analogue in an amt. sufficient to increase the
 CC amylin level in the plasma of the patient. The pref. amylin analogues are
 CC given in AAR29197-222. Treating a patient deficient in adipose tissue
 CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
 CC ratio sufficient to increase adipose tissue. Typical dosage units contain
 CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
 CC 2003 to correct PN field.)

XX Sequence 37 AA;

Query Match 96.5%; Score 195; DB 2; Length 37;
 Best Local Similarity 94.6%; Pred. No. 6.3e-20;
 Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNTY 37
 |||||
 DB 1 KCNTATCATORLANFLVHSSNNGPILPPTVNGSNTY 37

```

RESULT 50
AAR38809
ID AAR38809 standard; peptide; 37 AA.
XX
AC AAR38809;
XX
DT 25-MAR-2003 (revised)
DT 07-SEP-1993 (first entry)
XX
DE Leu23, Pro25, Val26, Pro28, Pro29 human amylin analogue.
XX
KM Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
KM hyperglycaemic agent.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Disulfide-bond 2..7
FT Misc-difference 23
FT Misc-difference 25 /note= "Leu replaces wild-type Phe"
FT Misc-difference 28 /note= "Pro replaces wild-type Ala"
FT Misc-difference 29 /note= "Pro replaces wild-type Ser"
FT Modified-site 37 /note= "Pro replaces wild-type Ser"
FT /note= "amidated"
XX
XX WO9310146-A1.
XX
XX 27-MAY-1993.
XX
XX 19-NOV-1992; 92MO-US009842.
XX
XX 19-NOV-1991; 91US-00794266.
XX
XX (AMYL-) AMYLIN PHARM INC.
XX
XX Gaeta LSL, Jones H, Albrecht E;
XX
XX WPI, 1993-182488/22.
XX
XX New amylin agonist peptide(s) - used for treatment and prevention of
XX hypoglycaemia and diabetes mellitus.
XX
XX Example 18; Fig 3 and Page 29; 43pp; English.
XX
XX This peptide is an example of amylin agonists of the invention which can
XX be used as hyperglycaemics. The peptide is an analogue of human amylin
XX which mimics the effects of the wild-type hormone. Preferred peptides are
XX used in admixture with insulin for the treatment of diabetes mellitus or
XX with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
XX -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
XX field.)
XX
XX Sequence 37 AA:
SQ
Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 6.3e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
OY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGVLPPTNGSNTY 37

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OM protein - protein search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	202	100.0	37	2	US-08-851-965-1 Sequence 1, Appl1
2	202	100.0	37	2	US-08-870-762a-1 Sequence 9, Appl1
3	202	100.0	37	3	US-09-454-533-9 Sequence 9, Appl1
4	202	100.0	37	4	US-10-649-138-9 Sequence 9, Appl1
5	202	100.0	37	4	US-10-643-681-1 Sequence 1, Appl1
6	202	100.0	37	5	US-10-991-597-14 Sequence 14, Appl1
7	202	100.0	37	5	US-10-991-597-14 Sequence 47, Appl1
8	202	100.0	37	5	US-10-775-204-2200 Sequence 2200, Ap
9	201	99.5	37	2	US-08-851-965-6 Sequence 6, Appl1
10	201	99.5	37	2	US-08-851-965-17 Sequence 17, Appl1
11	201	99.5	37	2	US-08-870-762a-5 Sequence 5, Appl1
12	201	99.5	37	3	US-09-454-533-12 Sequence 12, Appl1
13	201	99.5	37	4	US-10-649-138-12 Sequence 12, Appl1
14	201	99.5	37	4	US-10-643-681-7 Sequence 7, Appl1
15	201	99.5	37	4	US-10-643-681-18 Sequence 18, Appl1
16	201	99.5	37	5	US-10-991-597-17 Sequence 17, Appl1
17	197	97.5	36	2	US-08-851-965-9 Sequence 9, Appl1
18	197	97.5	36	2	US-08-870-762a-15 Sequence 15, Appl1
19	197	97.5	36	4	US-10-643-681-10 Sequence 10, Appl1
20	195	96.5	36	5	US-10-775-180-847 Sequence 847, App
21	195	96.5	37	2	US-08-851-965-10 Sequence 10, Appl1
22	195	96.5	37	2	US-08-851-965-16 Sequence 16, Appl1
23	195	96.5	37	3	US-09-454-533-16 Sequence 16, Appl1
24	195	96.5	37	3	US-09-454-533-22 Sequence 22, Appl1
25	195	96.5	37	4	US-10-649-138-16 Sequence 16, Appl1
26	195	96.5	37	4	US-10-649-138-22 Sequence 22, Appl1
27	195	96.5	37	4	US-10-643-681-11 Sequence 11, Appl1

28	195	96.5	37	4	US-10-643-681-17 Sequence 17, Appl1
29	195	96.5	37	5	US-10-850-055-34 Sequence 34, Appl1
30	195	96.5	37	5	US-10-991-597-21 Sequence 21, Appl1
31	195	96.5	37	5	US-10-991-597-27 Sequence 27, Appl1
32	195	96.5	37	5	US-10-993-667-34 Sequence 34, Appl1
33	194	96.0	37	2	US-08-851-965-7 Sequence 7, Appl1
34	194	96.0	37	2	US-08-851-965-34 Sequence 34, Appl1
35	194	96.0	37	2	US-08-870-762a-2 Sequence 2, Appl1
36	194	96.0	37	2	US-08-870-762a-11 Sequence 11, Appl1
37	194	96.0	37	3	US-09-454-533-13 Sequence 13, Appl1
38	194	96.0	37	3	US-09-454-533-38 Sequence 38, Appl1
39	194	96.0	37	4	US-10-649-138-13 Sequence 13, Appl1
40	194	96.0	37	4	US-10-649-138-38 Sequence 38, Appl1
41	194	96.0	37	4	US-10-643-681-8 Sequence 8, Appl1
42	194	96.0	37	5	US-10-991-597-18 Sequence 18, Appl1
43	194	96.0	37	5	US-10-991-597-43 Sequence 43, Appl1
44	193	95.5	36	3	US-09-454-533-15 Sequence 15, Appl1
45	193	95.5	36	3	US-10-649-138-15 Sequence 15, Appl1
46	193	95.5	36	5	US-10-991-597-20 Sequence 20, Appl1
47	192	95.0	36	3	US-09-454-533-40 Sequence 40, Appl1
48	192	95.0	36	4	US-10-649-138-40 Sequence 40, Appl1
49	192	95.0	36	5	US-10-991-597-45 Sequence 45, Appl1
50	191	94.6	37	3	US-09-454-533-23 Sequence 23, Appl1
51	191	94.6	37	4	US-10-649-138-23 Sequence 23, Appl1
52	191	94.6	37	5	US-10-991-597-28 Sequence 28, Appl1
53	190	94.1	36	2	US-08-851-965-18 Sequence 18, Appl1
54	190	94.1	36	3	US-09-454-533-24 Sequence 24, Appl1
55	190	94.1	36	4	US-10-649-138-24 Sequence 24, Appl1
56	190	94.1	36	5	US-10-643-681-19 Sequence 19, Appl1
57	190	94.1	36	5	US-10-991-597-29 Sequence 29, Appl1
58	189	93.6	36	2	US-08-851-965-35 Sequence 35, Appl1
59	189	93.6	36	2	US-08-870-762a-12 Sequence 12, Appl1
60	189	93.6	36	2	US-08-870-762a-14 Sequence 14, Appl1
61	189	93.6	36	3	US-09-454-533-39 Sequence 39, Appl1
62	189	93.6	36	4	US-10-649-138-39 Sequence 39, Appl1
63	189	93.6	36	4	US-10-643-681-9 Sequence 9, Appl1
64	189	93.6	36	5	US-10-991-597-44 Sequence 44, Appl1
65	188	93.1	37	2	US-08-851-965-14 Sequence 14, Appl1
66	188	93.1	37	3	US-09-454-533-20 Sequence 20, Appl1
67	188	93.1	37	4	US-10-649-138-20 Sequence 20, Appl1
68	188	93.1	37	4	US-10-643-681-15 Sequence 15, Appl1
69	188	93.1	37	5	US-10-991-597-25 Sequence 25, Appl1
70	188	93.1	37	5	US-10-991-597-25 Sequence 25, Appl1
71	187	92.6	37	2	US-08-851-965-11 Sequence 11, Appl1
72	187	92.6	37	3	US-09-813-345-17 Sequence 17, Appl1
73	187	92.6	37	3	US-09-454-533-4 Sequence 4, Appl1
74	187	92.6	37	3	US-09-454-533-17 Sequence 17, Appl1
75	187	92.6	37	4	US-10-306-645A-1 Sequence 4, Appl1
76	187	92.6	37	4	US-10-649-138-4 Sequence 4, Appl1
77	187	92.6	37	4	US-10-649-138-17 Sequence 17, Appl1
78	187	92.6	37	4	US-10-643-681-12 Sequence 12, Appl1
79	187	92.6	37	5	US-10-991-597-9 Sequence 9, Appl1
80	187	92.6	37	5	US-10-991-597-22 Sequence 22, Appl1
81	187	92.6	37	6	US-11-066-697-321 Sequence 321, App
82	187	92.6	37	6	US-11-066-697-334 Sequence 334, App
83	186	92.1	93	5	US-10-481-665-5 Sequence 5, Appl1
84	186	92.1	37	5	US-08-851-965-3 Sequence 3, Appl1
85	186	92.1	37	2	US-08-851-965-4 Sequence 4, Appl1
86	186	92.1	37	2	US-08-851-965-21 Sequence 21, Appl1
87	186	92.1	37	2	US-08-851-965-33 Sequence 33, Appl1
88	186	92.1	37	2	US-08-870-762a-3 Sequence 3, Appl1
89	186	92.1	37	2	US-08-870-762a-4 Sequence 4, Appl1
90	186	92.1	37	2	US-08-870-762a-10 Sequence 10, Appl1
91	186	92.1	37	3	US-09-454-533-8 Sequence 8, Appl1
92	186	92.1	37	3	US-09-454-533-10 Sequence 10, Appl1
93	186	92.1	37	3	US-09-454-533-27 Sequence 27, Appl1
94	186	92.1	37	3	US-09-454-533-37 Sequence 37, Appl1
95	186	92.1	37	4	US-10-649-138-8 Sequence 8, Appl1
96	186	92.1	37	4	US-10-649-138-10 Sequence 10, Appl1
97	186	92.1	37	4	US-10-649-138-27 Sequence 27, Appl1
98	186	92.1	37	4	US-10-649-138-37 Sequence 37, Appl1
99	186	92.1	37	4	US-10-643-681-3 Sequence 3, Appl1
100	186	92.1	37	4	US-10-643-681-5 Sequence 5, Appl1

ALIGNMENTS

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RESULT 1
US-08-851-965-1
; Sequence 1, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYRON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; TITLE OF INVENTION: AGONISTS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 619/552-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-851-965-1

Query Match
Best Local Similarity 100.0%; Score 202; DB 2; Length 37;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVNGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVNGSNTY 37

RESULT 2
US-08-870-762A-1
; Sequence 1, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Koltzman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
```

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NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET, SUITE 4700
CITY: LOS ANGELES
STATE: CA
COUNTRY: USA
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/870,762A
FILING DATE: 06-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 226/104
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-2200
TELEFAX: 619-552-0159
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-870-762A-1

Query Match
Best Local Similarity 100.0%; Score 202; DB 2; Length 37;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVNGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVNGSNTY 37

RESULT 3
US-09-454-533-9
; Sequence 9, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; US9S THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-454-533-9

Query Match 100.0%; Score 202; DB 3; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
Db 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 4
US-10-649-138-9
Sequence 9, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USERS THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESSES:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991

APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-10-649-138-9

Query Match 100.0%; Score 202; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37
Db 1 KCNTATCATORLANFLVHSSNNFGPILPPTVGSNTY 37

RESULT 5
US-10-643-681-1
Sequence 1, Application US/10643681
Publication No. US20040097415A1
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
YOUNG, Timothy J.
RINK, Andrew A.
BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/643,681
FILING DATE: 18-Aug-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510

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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 37 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
;   LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-643-681-1
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Query Match          100.0%; Score 202; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
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RESULT 6
US-10-991-597-14
; Sequence 14, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-14
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Query Match          100.0%; Score 202; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
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```

RESULT 7
US-10-991-597-47
; Sequence 47, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-10-991-597-47
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Query Match          100.0%; Score 202; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
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RESULT 8
US-10-775-204-2200
; Sequence 2200, Application US/10775204
; Publication No. US20050186664A1
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: p564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; REMAINING PRIOR APPLICATION data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2200
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-2200
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Query Match          100.0%; Score 202; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db      1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
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RESULT 9
US-08-851-965-6
; Sequence 6, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth WYN
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; AGONISTS
```

```

; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION:
; US-08-851-965-6
;
Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

RESULT 10
US-08-851-965-17
; Sequence 17, Application US/08851965
; Publication No. US2002001013A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wym
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION:
; US-08-851-965-17
;
Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

RESULT 11
US-08-870-762A-5
; Sequence 5, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
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SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-870-762A-5

Query Match
Best Local Similarity 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPVLPTTVGSNTY 37

RESULT 12
US-09-454-533-12
Sequence 12, Application US/09454533
Publication No. US20020187923A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)

SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-454-533-12

Query Match
Best Local Similarity 99.5%; Score 201; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPVLPTTVGSNTY 37

RESULT 13
US-10-649-138-12
Sequence 12, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-649-138-12

Query Match
Best Local Similarity 99.5%; Score 201; DB 4; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTVGSNTY 37
|||||

Db 1 KCNTATCATQRLANFLVHSSNNFGPVLPTTVGSNTY 37

RESULT 14
US-10-643-681-7
; Sequence 7, Application US/10643681
; Publication No. US20040097415A1
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/643,681
; FILING DATE: 18-Aug-2003
; CLASSIFICATION: 514
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-643-681-7

Query Match 99.5%; Score 201; DB 4; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPVLPTTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPVLPTTVGSNTY 37

RESULT 15
US-10-643-681-18
; Sequence 18, Application US/10643681
; Publication No. US20040097415A1
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.

; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/643,681
; FILING DATE: 18-Aug-2003
; CLASSIFICATION: 514
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-10-643-681-18

Query Match 99.5%; Score 201; DB 4; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPVLPTTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPVLPTTVGSNTY 37

RESULT 16
US-10-991-597-17
; Sequence 17, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; GLUCOCORTICOSTEROID-REGULATING PEPTIDES
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; PRIORITY APPLICATION NUMBER: 60/532,337
; PRIORITY FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17

LENGTH: 37
TYPE: PRT
ORGANISM: Homo sapiens
US-10-991-597-17

Query Match 99.5%; Score 201; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 2e-20;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 17

US-08-851-965-9
Sequence 9, Application US/08851965
Publication No. US20020010133A1
GENERAL INFORMATION:
APPLICANT: YOUNG, Andrew A.
APPLICANT: GEDULIN, Bronislava
APPLICANT: BEYRON, Gareth Wym
TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
TITLE OF INVENTION: USING AMYLIN OR AMYLIN
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,965
FILING DATE: 06-MAY-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 224/042
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 619/552-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 1,6
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-9

Query Match 97.5%; Score 197; DB 2; Length 36;
Best Local Similarity 100.0%; Pred. No. 7e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36

RESULT 18

US-08-870-762A-15
Sequence 15, Application US/08870762A
Publication No. US20030026812A1
GENERAL INFORMATION:
APPLICANT: Duft, Bradford
APPLICANT: Koltzman, Orville
TITLE OF INVENTION: METHODS FOR TREATING OBESITY
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET, SUITE 4700
CITY: LOS ANGELES
STATE: CA
COUNTRY: USA
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/870,762A
FILING DATE: 06-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 226/104
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-2200
TELEFAX: 619-552-0159
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 1,6
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-870-762A-15

Query Match 97.5%; Score 197; DB 2; Length 36;
Best Local Similarity 100.0%; Pred. No. 7e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36

RESULT 19

US-10-643-681-10
Sequence 10, Application US/10643681
Publication No. US20040097415A1
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
APPLICANT: YOUNG, Andrew A.
APPLICANT: BROWN, Kathleen Ann Keiting
APPLICANT: BROWN, Timothy J.
TITLE OF INVENTION: METHODS FOR REGULATING
GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30


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CORRESPONDENCE ADDRESS:
ADDRESS: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/643,661
FILING DATE: 18-Aug-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/06/302,069A
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-10-643-661-10

Query Match      97.5%; Score 197; DB 4; Length 36;
Best Local Similarity 100.0%; Pred. No. 7e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY      2 CNTATCATQRLANPLVHSSNNFGPIPLPTNGSNTY 37
      |||
Db      1 CNTATCATQRLANPLVHSSNNFGPIPLPTNGSNTY 36

RESULT 20
US-10-775-180-847
Sequence 847, Application US/10775180
GENERAL INFORMATION:
APPLICANT: Rosen, Craig A.
TITLE OR INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PFS74
CURRENT APPLICATION NUMBER: US/10/775,180
CURRENT FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: PCT/US02/40892
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: 60/341,811
PRIOR FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/360,000
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: 60/378,950
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/398,008
PRIOR FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: 60/411,355

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      PRIOR FILING DATE: 2002-09-18
      PRIOR APPLICATION NUMBER: 60/414,984
      PRIOR FILING DATE: 2002-10-02
      PRIOR APPLICATION NUMBER: 60/417,611
      PRIOR FILING DATE: 2002-10-11
      PRIOR APPLICATION NUMBER: 60/420,246
      PRIOR FILING DATE: 2002-10-23
      PRIOR APPLICATION NUMBER: 60/423,623
      PRIOR FILING DATE: 2002-11-05
      Remaining Prior Application data removed - See File Wrapper or PALM.
      NUMBER OF SEQ ID NOS: 858
      SOFTWARE: PatentIn Ver. 2.0
      SEQ ID NO 847
      LENGTH: 36
      TYPE: PRT
      ORGANISM: Homo sapiens
US-10-775-180-847

Query Match      96.5%; Score 195; DB 5; Length 36;
Best Local Similarity 100.0%; Pred. No. 1,3e-19;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KCMATCATGRLANFLVHSSNNFPIIPPTVGSNT 36
      |||||||
Db      1 KCMATCATGRLANFLVHSSNNFPIIPPTVGSNT 36

RESULT 21
US-08-851-965-10
Sequence 10, Application US/08851965
Publication No. US20020010135A1
GENERAL INFORMATION:
APPLICANT: YOUNG, Andrew A.
APPLICANT: GEDULIN, Bronislava
APPLICANT: BEYMON, Garrel Wym
TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
TITLE OF INVENTION: USING AMTILIN OR AMTILIN
TITLE OF INVENTION: AGONISTS
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,965
FILING DATE: 06-MAY-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 224/042
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between

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OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-10

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNNLGPVLPPTVGSNTY 37

RESULT 22
US-08-851-965-16

Sequence 16, Application US/08851965
Publication No. US20020010133A1

GENERAL INFORMATION:
APPLICANT: YOUNG, Andrew A.
APPLICANT: GEDULIN, Bronislava
APPLICANT: BEYRON, Gareth Wym
TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
TITLE OF INVENTION: USING AMYLIN OR AMYLIN
TITLE OF INVENTION: AGONISTS
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,965
FILING DATE: 06-MAY-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 224/042
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440

TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-16

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNNLGPVLPPTVGSNTY 37

RESULT 23
US-09-454-533-16
Sequence 16, Application US/09454533
Publication No. US20020187923A1

GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USERS THEREFOR

NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440

TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-454-533-16

Query Match 96.5%; Score 195; DB 3; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNNLGPVLPPTVGSNTY 37

RESULT 24
US-09-454-533-22

Sequence 22, Application US/09454533
Publication No. US20020187923A1

GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USERS THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:

ADDRESSER: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991

ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)

SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-09-454-533-22

Query Match 96.5%; Score 195; DB 3; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNNGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNNGPILPPTVGSNTY 37

RESULT 25
US-10-649-138-16
Sequence 16, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USERS THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSER: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991

ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)

SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-649-138-16

Query Match 96.5%; Score 195; DB 4; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNNGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNNGPILPPTVGSNTY 37

RESULT 26
US-10-649-138-22
Sequence 22, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USERS THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSER: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>

APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-10-643-138-22

Query Match 96.5%; Score 195; DB 4; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTVGSNTY 37

RESULT 27
US-10-643-681-11
Sequence 11, Application US/10643681
Publication No. US20040097415A1
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
YOUNG, Andrew A.
RINK, Timothy J.
BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/643,681
FILING DATE: 18-AUG-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200

TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-643-681-11

Query Match 96.5%; Score 195; DB 4; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTVGSNTY 37

RESULT 28
US-10-643-681-17
Sequence 17, Application US/10643681
Publication No. US20040097415A1
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
YOUNG, Andrew A.
RINK, Timothy J.
BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/643,681
FILING DATE: 18-AUG-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

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; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-643-681-17

Query Match          96.5%; Score 195; DB 4; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
      |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37

RESULT 29
US-10-850-055-34
; Sequence 34, Application US/10850055
; Publication No. US20050009742A1
; GENERAL INFORMATION:
; APPLICANT: Bertilsson, Goran
; APPLICANT: Erlandsson, Rikard
; APPLICANT: Frisen, Jonas
; APPLICANT: Haegerstrand, Anders
; APPLICANT: Heidrich, Jessica
; APPLICANT: Hellstrom, Kristina
; APPLICANT: Haggbblad, Johan
; APPLICANT: Jansson, Katarina
; APPLICANT: Kortessman, Jarkko
; APPLICANT: Lindquist, Per
; APPLICANT: Lundh, Hanna
; APPLICANT: McGuire, Jacqueline
; APPLICANT: Mercer, Alex
; APPLICANT: Nyberg, Karl
; APPLICANT: Ossoinak, Amina
; APPLICANT: Patrone, Cesare
; APPLICANT: Ronnholm, Harriet
; APPLICANT: Wikstrom, Lillian
; APPLICANT: Zachrisson, Olof
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR INCREASING NEUROGENESIS
; FILE REFERENCE: 21892-517 CIP
; CURRENT APPLICATION NUMBER: US/10/850,055
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 10/718,071
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: US 60/427,912
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-850-055-34

Query Match          96.5%; Score 195; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.4e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
      |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 30
US-10-991-597-21
; Sequence 21, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US

; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-21

Query Match          96.5%; Score 195; DB 5; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
      |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 31
US-10-991-597-27
; Sequence 27, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-27

Query Match          96.5%; Score 195; DB 5; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.4e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
      |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 32
US-10-993-667-34
; Sequence 34, Application US/10993667
; Publication No. US20050209142A1
; GENERAL INFORMATION:
; APPLICANT: Bertilsson, Goran
; APPLICANT: Erlandsson, Rikard
; APPLICANT: Frisen, Jonas
; APPLICANT: Haegerstrand, Anders
; APPLICANT: Heidrich, Jessica
; APPLICANT: Hellstrom, Nina
; APPLICANT: Haggbblad, Johan
; APPLICANT: Jansson, Katarina
; APPLICANT: Kortessman, Jarkko
; APPLICANT: Lindquist, Per
; APPLICANT: Lundh, Hanna
; APPLICANT: McGuire, Jacqueline
; APPLICANT: Mercer, Alex
; APPLICANT: Nyberg, Karl
; APPLICANT: Ossoinak, Amina
; APPLICANT: Patrone, Cesare
```

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; APPLICANT: Ronnholm, Harriet
; APPLICANT: Wikstrom, Lillian
; APPLICANT: Zachrisson, Olof
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR INCREASING NEUROGENESIS
; FILE REFERENCE: 21882-517 CIP2
; CURRENT APPLICATION NUMBER: US/10/993,667
; CURRENT FILING DATE: 2004-11-19
; PRIOR APPLICATION NUMBER: US 10/850,055
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 10/718,071
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: US 60/427,912
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-993-667-34

Query Match          96.5%; Score 195; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.4e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37
Db      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 33
US-08-851-965-7
; Sequence 7, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

Query Match          96.5%; Score 195; DB 5; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.4e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37
Db      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 34
US-08-851-965-34
; Sequence 34, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

Query Match          96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37
Db      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37

FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-7

Query Match          96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37
Db      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 34
US-08-851-965-34
; Sequence 34, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

Query Match          96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KCNTATCATORLANFLVHSSNFGPILPPTNVGSNTY 37
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Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 35

US-08-870-762A-2
; Sequence 2, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)

US-08-870-762A-2
Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

US-08-870-762A-2
RESULT 36
US-08-870-762A-11
; Sequence 11, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

US-08-870-762A-2
Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

US-08-870-762A-2
RESULT 37
US-08-870-762A-13
; Sequence 13, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.I. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)

US-08-870-762A-11
Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

US-08-870-762A-11
RESULT 37
US-09-454-533-13
; Sequence 13, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.I. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

US-09-454-533-13
Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

US-09-454-533-13
RESULT 37
US-09-454-533-13
; Sequence 13, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.I. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

US-09-454-533-13
Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

US-09-454-533-13
RESULT 37
US-09-454-533-13
; Sequence 13, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.I. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-454-533-13
Query Match 96.0%; Score 194; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 38
US-09-454-533-38
; Sequence 38, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-454-533-13
Query Match 96.0%; Score 194; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 39
US-10-649-138-13
; Sequence 13, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
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;
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 38
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-454-533-38
Query Match 96.0%; Score 194; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 39
US-10-649-138-13
; Sequence 13, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
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/
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/649,138
/ FILING DATE: 26-Aug-2003
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/454,533
/ FILING DATE: 06-Dec-1999
/ APPLICATION NUMBER: 08/892,549
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 07/794,266
/ FILING DATE: 19-Nov-1991
/ APPLICATION NUMBER: US 07/667,040
/ FILING DATE: 08-Mar-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DUFT, BRADFORD J.
/ REGISTRATION NUMBER: 32,219
/ REFERENCE/DOCKET NUMBER: 227/006
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 619/552-2200
/ TELEFAX: 213/955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 15:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 36 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ LOCATION: 36
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/
/ US-10-649-138-15
/
/ Query Match 95.5%; Score 193; DB 4; Length 36;
/ Best Local Similarity 97.2%; Pred. No. 2.5e-19;
/ Matches 35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
/
/ QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
/ |||||
/ DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36
/ |||||
/
/ RESULT 46
/ US-10-991-597-20
/ Sequence 20, Application US/10991597
/ Publication No. US20050143303A1
/ GENERAL INFORMATION:
/ APPLICANT: Quay, Steven C.
/ APPLICANT: Costantino, Henry R.
/ TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
/ FILE OF INVENTION: GLUCOSE-REGULATING PEPTIDES
/ FILE REFERENCE: 03-14US
/ CURRENT APPLICATION NUMBER: US/10/991,597
/ CURRENT FILING DATE: 2004-11-18
/ PRIOR APPLICATION NUMBER: 60/532,337
/ PRIOR FILING DATE: 2003-12-26
/ NUMBER OF SEQ ID NOS: 47
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 20
/ LENGTH: 36
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-991-597-20
/
/ Query Match 95.5%; Score 193; DB 5; Length 36;
/ Best Local Similarity 97.2%; Pred. No. 2.5e-19;
/ Matches 35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
/
/ QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
/ |||||
/ DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36
/ |||||
/
/ RESULT 47
/ US-09-454-533-40
/ Sequence 40, Application US/09454533
/ Publication No. US20020187923A1
/ GENERAL INFORMATION:
/ APPLICANT: GAETA, Laura S.L. Et Al.
/ TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
/ USES THEREFOR
/ NUMBER OF SEQUENCES: 41
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LYON & LYON
/ STREET: 633 WEST FIFTH STREET
/ CITY: LOS ANGELES
/ STATE: CALIFORNIA
/ COUNTRY: USA
/ ZIP: 90017
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA: US/09/454,533
/ FILING DATE: 06-Dec-1999
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/892,549
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 07/794,266
/ FILING DATE: 19-Nov-1991
/ APPLICATION NUMBER: US 07/667,040
/ FILING DATE: 08-Mar-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DUFT, BRADFORD J.
/ REGISTRATION NUMBER: 32,219
/ REFERENCE/DOCKET NUMBER: 227/006
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 619/552-2200
/ TELEFAX: 213/955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 40
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 36 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ LOCATION: 36
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/
/ US-09-454-533-40
/
/ Query Match 95.0%; Score 192; DB 3; Length 36;
/ Best Local Similarity 94.4%; Pred. No. 3.5e-19;
/ Matches 34; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
/
/ QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
/ |||||
/ DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36
/ |||||
/
/ RESULT 48
/ US-10-649-138-40
/ Sequence 40, Application US/10649138
/ Publication No. US20040038900A1
/ GENERAL INFORMATION:
/ APPLICANT: GAETA, Laura S.L. Et Al.
/ TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
/ USES THEREFOR
/ NUMBER OF SEQUENCES: 41
/ CORRESPONDENCE ADDRESS:
```

```

; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
;
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 40
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-10-649-138-40

Query Match 95.0%; Score 192; DB 4; Length 36;
Best Local Similarity 94.4%; Pred. No. 3.5e-19;
Matches 34; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNNFGPVLPPSPNVGSNTY 36

RESULT 49
US-10-991-597-45
; Sequence 45, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 36
; TYPE: PRT

; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
;
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 40
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-10-649-138-40

Query Match 95.0%; Score 192; DB 4; Length 36;
Best Local Similarity 94.4%; Pred. No. 3.5e-19;
Matches 34; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNNFGPVLPPSPNVGSNTY 36

RESULT 49
US-10-991-597-45
; Sequence 45, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 36
; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-991-597-45

Query Match 95.0%; Score 192; DB 5; Length 36;
Best Local Similarity 94.4%; Pred. No. 3.5e-19;
Matches 34; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNNFGPVLPPSPNVGSNTY 36

RESULT 50
US-09-454-533-23
; Sequence 23, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
;
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 23
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-454-533-23

Query Match 94.6%; Score 191; DB 3; Length 37;
Best Local Similarity 97.3%; Pred. No. 4.9e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
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Job time : 165 secs

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OM protein - protein search, using sw model

n: May 12, 2006, 15:34:37 ; Search time 27 Seconds
(without alignments)
64.337 Million cells

Title: US-08-870-762B-1

Perfect score:

Sequence: 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 250354 seqs, 46948837 residues

Total number of hits satisfying chosen parameters: 250354

Minimum DB seq length: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

100% processing: Minimum Match 0%
Maximum Match 100%

Maximum Match 100%
Listing first 100 summaries

Database : Published Applications AA New:*

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9: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB.pep1.*
10: /SIDSS/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
11: /SIDSS/ptodata/2/pubpaa/US11_NEW_PUB.pep1.*
12: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	202	100.0	37	10	US-11-055-093-67		Sequence 67, Appl
2	201	99.5	37	10	US-11-055-093-69		Sequence 69, Appl
3	201	98.5	37	10	US-11-055-093-75		Sequence 75, Appl
4	201	98.5	37	10	US-11-055-093-92		Sequence 92, Appl
5	197	97.5	36	10	US-11-055-093-74		Sequence 74, Appl
6	195	96.5	37	10	US-11-055-093-85		Sequence 85, Appl
7	195	96.5	37	10	US-11-055-093-91		Sequence 91, Appl
8	195	96.5	37	11	US-11-288-495-34		Sequence 34, Appl
9	194	96.0	37	10	US-11-055-093-72		Sequence 72, Appl
10	194	96.0	37	10	US-11-055-093-83		Sequence 83, Appl
11	190	94.1	36	10	US-11-055-093-93		Sequence 93, Appl
12	189	93.6	36	10	US-11-055-093-73		Sequence 73, Appl
13	189	93.6	36	10	US-11-055-093-84		Sequence 84, Appl
14	188	93.1	37	10	US-11-055-093-89		Sequence 89, Appl
15	187	92.6	37	10	US-11-055-093-44		Sequence 44, Appl
16	187	92.6	37	10	US-11-055-093-86		Sequence 86, Appl
17	186	92.1	37	10	US-11-055-093-70		Sequence 70, Appl
18	186	92.1	37	10	US-11-055-093-82		Sequence 82, Appl
19	186	92.1	37	10	US-11-055-093-96		Sequence 96, Appl
20	186	92.1	37	10	US-11-055-093-189		Sequence 189, App
21	182	90.1	36	10	US-11-055-093-87		Sequence 87, Appl

Sequence 27, Appl
Sequence 29, Appl
Sequence 31, Appl
Sequence 35, Appl
Sequence 33, Appl
Sequence 12, Appl

95 68 33.7 66 10 US-11-055-093-27
96 68 33.7 66 10 US-11-055-093-29
97 68 33.7 66 10 US-11-055-093-31
98 68 33.7 66 10 US-11-055-093-35
99 68 33.7 67 10 US-11-055-093-33
100 67 33.2 37 9 US-10-516-768-12

ALIGNMENTS

RESULT 1
US-11-055-093-67
; Sequence 67, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 67
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-67

Query Match 100.0%; Score 202; DB 10; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.1e-22;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 2
US-11-055-093-69
; Sequence 69, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 69
; LENGTH: 37
; TYPE: PRT

; ORGANISM: Homo sapiens
US-11-055-093-69

Query Match 99.5%; Score 201; DB 10; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.5e-22;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 3
US-11-055-093-75
; Sequence 75, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 75
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-75

Query Match 99.5%; Score 201; DB 10; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.5e-22;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 4
US-11-055-093-92
; Sequence 92, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 92
; LENGTH: 37


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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-82

Query Match          99.5%; Score 201; DB 10; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.5e-22;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
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DB 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 5
US-11-055-093-74
; Sequence 74, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; PRIOR FILING DATE: 2005-02-11
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 74
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-74

Query Match          97.5%; Score 197; DB 10; Length 36;
Best Local Similarity 100.0%; Pred. No. 5.4e-22;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
|||||

RESULT 6
US-11-055-093-85
; Sequence 85, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; PRIOR FILING DATE: 2005-02-11
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 85

; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-85

Query Match          96.5%; Score 195; DB 10; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.1e-21;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
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DB 1 KNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37
|||||

RESULT 7
US-11-055-093-91
; Sequence 91, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; PRIOR FILING DATE: 2005-02-11
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 91
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-91

Query Match          96.5%; Score 195; DB 10; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.1e-21;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 KNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37
|||||

RESULT 8
US-11-288-495-34
; Sequence 34, Application US/11288495
; Publication No. US20060079448A1
; GENERAL INFORMATION:
; APPLICANT: Bertilsson, Goran
; APPLICANT: Erlandsson, Rikard
; APPLICANT: Frisen, Jonas
; APPLICANT: Haegerstrand, Anders
; APPLICANT: Heidrich, Jessica
; APPLICANT: Hellstrom, Kristina
; APPLICANT: Haggbjard, Johan
; APPLICANT: Jansson, Katarina
; APPLICANT: Kortesman, Jarkko
; APPLICANT: Lindquist, Per
; APPLICANT: Lundh, Hanna
; APPLICANT: McGuire, Jacqueline
; APPLICANT: Mercer, Alex
; APPLICANT: Nyberg, Karl
; APPLICANT: Osscinak, Amina
; APPLICANT: Patrone, Cesare
; APPLICANT: Ronnholm, Harriet
```

; APPLICANT: Wikstrom, Lillian
; APPLICANT: Zachrisson, Olof
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR INCREASING NEUROGENESIS
; FILE REFERENCE: 21882-517 CIP
; CURRENT APPLICATION NUMBER: US/11/288,495
; CURRENT FILING DATE: 2005-11-28
; PRIOR APPLICATION NUMBER: US 10/718,071
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: US 60/427,912
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-288-495-34

Query Match 96.5%; Score 195; DB 11; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.1e-21;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 9

US-11-055-093-72

; Sequence 72, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 72
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-72

Query Match 96.0%; Score 194; DB 10; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.5e-21;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 10

US-11-055-093-83
; Sequence 83, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.

; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 83
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-83

Query Match 96.0%; Score 194; DB 10; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.5e-21;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 11

US-11-055-093-93
; Sequence 93, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 93
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-93

Query Match 94.1%; Score 190; DB 10; Length 36;
Best Local Similarity 94.4%; Pred. No. 5.7e-21;
Matches 34; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
|||||

RESULT 12

US-11-055-093-73
; Sequence 73, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.

```
/ APPLICANT: LEWIS, DIANA Y.
/ APPLICANT: SOARES, CHRISTOPHER J.
/ APPLICANT: GHOSH, SOUMITRA S.
/ APPLICANT: D'SOUZA, LAWRENCE
/ APPLICANT: PARKES, DAVID
/ APPLICANT: MACK, CHRISTINE M.
/ TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
/ FILE REFERENCE: 18528.740
/ CURRENT APPLICATION NUMBER: US/11/055,093
/ CURRENT FILING DATE: 2005-02-11
/ PRIOR FILING DATE: 2004-02-11
/ NUMBER OF SEQ ID NOS: 288
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO 73
/ LENGTH: 36
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-055-093-73

Query Match          93.6%; Score 189; DB 10; Length 36;
Best Local Similarity 97.2%; Pred. No. 7.9e-21;
Matches 35; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 13
US-11-055-093-84
/ Sequence 84, Application US/11055093
/ Publication No. US20060094652A1
/ GENERAL INFORMATION:
/ APPLICANT: LEVY, ODILE ESTHER
/ APPLICANT: HANLEY, MICHAEL R.
/ APPLICANT: JODKA, CAROLYN M.
/ APPLICANT: LEWIS, DIANA Y.
/ APPLICANT: SOARES, CHRISTOPHER J.
/ APPLICANT: GHOSH, SOUMITRA S.
/ APPLICANT: D'SOUZA, LAWRENCE
/ APPLICANT: PARKES, DAVID
/ APPLICANT: MACK, CHRISTINE M.
/ TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
/ FILE REFERENCE: 18528.740
/ CURRENT APPLICATION NUMBER: US/11/055,093
/ CURRENT FILING DATE: 2005-02-11
/ PRIOR FILING DATE: 2004-02-11
/ NUMBER OF SEQ ID NOS: 288
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO 84
/ LENGTH: 36
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-055-093-84

Query Match          93.6%; Score 189; DB 10; Length 36;
Best Local Similarity 97.2%; Pred. No. 7.9e-21;
Matches 35; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 14
US-11-055-093-89
/ Sequence 89, Application US/11055093
/ Publication No. US20060094652A1
/ GENERAL INFORMATION:
/ APPLICANT: LEVY, ODILE ESTHER
/ APPLICANT: HANLEY, MICHAEL R.
```

```
/ APPLICANT: JODKA, CAROLYN M.
/ APPLICANT: LEWIS, DIANA Y.
/ APPLICANT: SOARES, CHRISTOPHER J.
/ APPLICANT: GHOSH, SOUMITRA S.
/ APPLICANT: D'SOUZA, LAWRENCE
/ APPLICANT: PARKES, DAVID
/ APPLICANT: MACK, CHRISTINE M.
/ TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
/ FILE REFERENCE: 18528.740
/ CURRENT APPLICATION NUMBER: US/11/055,093
/ CURRENT FILING DATE: 2005-02-11
/ PRIOR FILING DATE: 2004-02-11
/ NUMBER OF SEQ ID NOS: 288
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO 89
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-055-093-89

Query Match          93.1%; Score 188; DB 10; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.1e-20;
Matches 35; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37

RESULT 15
US-11-055-093-44
/ Sequence 44, Application US/11055093
/ Publication No. US20060094652A1
/ GENERAL INFORMATION:
/ APPLICANT: LEVY, ODILE ESTHER
/ APPLICANT: HANLEY, MICHAEL R.
/ APPLICANT: JODKA, CAROLYN M.
/ APPLICANT: LEWIS, DIANA Y.
/ APPLICANT: SOARES, CHRISTOPHER J.
/ APPLICANT: GHOSH, SOUMITRA S.
/ APPLICANT: D'SOUZA, LAWRENCE
/ APPLICANT: PARKES, DAVID
/ APPLICANT: MACK, CHRISTINE M.
/ TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
/ FILE REFERENCE: 18528.740
/ CURRENT APPLICATION NUMBER: US/11/055,093
/ CURRENT FILING DATE: 2005-02-11
/ PRIOR FILING DATE: 2004-02-11
/ NUMBER OF SEQ ID NOS: 288
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO 44
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Rattus sp.
US-11-055-093-44

Query Match          92.6%; Score 187; DB 10; Length 37;
Best Local Similarity 91.9%; Pred. No. 1.6e-20;
Matches 34; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37

RESULT 16
US-11-055-093-86
/ Sequence 86, Application US/11055093
/ Publication No. US20060094652A1
/ GENERAL INFORMATION:
/ APPLICANT: LEVY, ODILE ESTHER
```


; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 189
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-189

Query Match 92.1%; Score 186; DB 10; Length 37;
Best Local Similarity 94.6%; Pred. No. 2.2e-20;
Matches 35; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNNFGAILPSTNVGSNTY 37
|||||

RESULT 21
US-11-055-093-87
; Sequence 87, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 87
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-87

Query Match 90.1%; Score 182; DB 10; Length 36;
Best Local Similarity 91.7%; Pred. No. 8.3e-20;
Matches 33; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 2 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36
|||||

RESULT 22
US-11-055-093-71
; Sequence 71, Application US/11055093

; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 71
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-71

Query Match 89.6%; Score 181; DB 10; Length 36;
Best Local Similarity 94.4%; Pred. No. 1.2e-19;
Matches 34; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNNFGPILPSTNVGSNTY 36
|||||

RESULT 23
US-11-055-093-90
; Sequence 90, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 90
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-90

Query Match 89.1%; Score 180; DB 10; Length 37;
Best Local Similarity 91.9%; Pred. No. 1.7e-19;
Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNNLGPILPSTNVGSNTY 37
|||||

RESULT 24
US-11-055-093-88


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; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-030-300-21

Query Match      88.1%; Score 178; DB 11; Length 89;
Best Local Similarity 91.9%; Pred. No. 8.8e-19;
Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 34 KCNTATCATQRLANFLVHSSNNFGAILSTNVGSNTY 70

RESULT 32
US-11-145-463-95
; Sequence 95, Application US/11145463
; Publication No. US20060052301A1
; GENERAL INFORMATION:
; APPLICANT: SHEMESH, Ronen
; TITLE OF INVENTION: SPICE VARIANTS OF PEPTIDE YV, NEUROPEPTIDE Y, PANCREATIC PEPTIDE
; TITLE OF INVENTION: Y AND AMYLIN, AND USES THEREOF
; FILE REFERENCE: 85189-9000
; CURRENT APPLICATION NUMBER: US/11/145.463
; PRIOR FILING DATE: 2005-06-02
; PRIOR APPLICATION NUMBER: US 60/576.414
; PRIOR FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: US 60/672.987
; PRIOR FILING DATE: 2005-04-20
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 95
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-145-463-95

Query Match      88.1%; Score 178; DB 11; Length 103;
Best Local Similarity 91.9%; Pred. No. 1e-18;
Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 48 KCNTATCATQRLANFLVHSSNNFGAILSTNVGSNTY 84

RESULT 33
US-11-055-093-68
; Sequence 68, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055.093
; PRIOR FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 68
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-68

Query Match      85.6%; Score 173; DB 10; Length 36;
Best Local Similarity 91.7%; Pred. No. 1.7e-18;
Matches 33; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGAILSTNVGSNTY 36

RESULT 34
US-11-055-093-77
; Sequence 77, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055.093
; PRIOR FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 77
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-77

Query Match      85.6%; Score 173; DB 10; Length 36;
Best Local Similarity 91.7%; Pred. No. 1.7e-18;
Matches 33; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGAILSTNVGSNTY 36

RESULT 35
US-10-760-085-8
; Sequence 8, Application US/10760085
; Publication No. US20060051879A9
; GENERAL INFORMATION:
; APPLICANT: Hubert K"ster
; APPLICANT: Daniel Paul Little
; APPLICANT: Suhaib Mahmood Siddiqi
; APPLICANT: Matthew Peter Grealish
; APPLICANT: Subramaniam Marappan
; APPLICANT: Chester Frederick Hassman III
; APPLICANT: Ping Yip
; TITLE OF INVENTION: Capture Compounds, Collections Thereof
; TITLE OF INVENTION: And Methods For Analyzing The Proteome And Complex
; TITLE OF INVENTION: Compositions
; FILE REFERENCE: 24743-2309
; CURRENT APPLICATION NUMBER: US/10/760.085
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: 60/441.398
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapien
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```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-95

Query Match      84.2%; Score 170; DB 10; Length 37;
Best Local Similarity 83.8%; Pred. No. 4.8e-18;
Matches 31; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
    |||||:|||||:|||||:|||||:|||||:|||||:
Db 1 KCNTATCATQRLANFLIRSSNNLGAVLSPPTNVGSNTY 37

RESULT 40
US-11-055-093-79
; Sequence 79, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 79
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-79

Query Match      83.7%; Score 169; DB 10; Length 37;
Best Local Similarity 89.2%; Pred. No. 6.6e-18;
Matches 33; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
    |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KANTATCATQRLANFLVHSSNFGAILSSITNVGSNTY 37

RESULT 41
US-11-055-093-102
; Sequence 102, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 102

; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-102

Query Match      83.7%; Score 169; DB 10; Length 37;
Best Local Similarity 83.8%; Pred. No. 6.6e-18;
Matches 31; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
    |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLTNFLVRSNNLGPALPPTDVGSNNTY 37

RESULT 42
US-11-055-093-211
; Sequence 211, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 211
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-093-211

Query Match      82.2%; Score 166; DB 10; Length 35;
Best Local Similarity 91.4%; Pred. No. 1.7e-17;
Matches 32; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSN 35
    |||||:|||||:|||||:|||||:|||||:|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGAILSSITNVGSN 35

RESULT 43
US-11-055-093-101
; Sequence 101, Application US/11055093
; Publication No. US20060094652A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, ODILE ESTHER
; APPLICANT: HANLEY, MICHAEL R.
; APPLICANT: JODKA, CAROLYN M.
; APPLICANT: LEWIS, DIANA Y.
; APPLICANT: SOARES, CHRISTOPHER J.
; APPLICANT: GHOSH, SOUMITRA S.
; APPLICANT: D'SOUZA, LAWRENCE
; APPLICANT: PARKES, DAVID
; APPLICANT: MACK, CHRISTINE M.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH SELECTABLE PROPERTIES
; FILE REFERENCE: 18528.740
; CURRENT APPLICATION NUMBER: US/11/055,093
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 60/543,407
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: PatentIn Ver. 3.3
```


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OM protein - protein search, using sw model

Run on: May 12, 2006, 15:18:26 ; Search time 38 Seconds
(without alignments)
93.685 Million cell updates/sec

Title: US-08-870-762B-1

Perfect score: 202

Sequence: 1 KNTATCATQRLANFLVHSSNNGPILPPTNVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

PIR 80:*

1: Pirl:*

2: Pirl2:*

3: Pirl3:*

4: Pirl4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	187	92.6	93	1	islet amyloid poly
2	187	92.6	93	1	islet amyloid poly
3	184	91.1	37	2	insulinoma amyloid
4	184	91.1	32	2	islet amyloid prot
5	178	88.1	89	1	islet amyloid poly
6	171	84.7	89	2	islet amyloid poly
7	169	83.7	89	2	islet amyloid poly
8	160	79.2	91	2	islet amyloid poly
9	153	75.7	135	2	islet amyloid poly
10	151	74.8	92	2	islet amyloid poly
11	96	47.5	23	2	islet amyloid poly
12	96	47.5	125	1	calcitonin gene-re
13	93	46.0	29	2	calcitonin gene-re
14	91	45.0	23	2	calcitonin gene-re
15	86	42.6	72	2	calcitonin gene-re
16	86	42.6	127	2	calcitonin gene-re
17	85	42.1	37	2	calcitonin gene-re
18	85	42.1	128	1	calcitonin gene-re
19	84	41.6	128	1	calcitonin gene-re
20	84	41.6	128	2	calcitonin gene-re
21	84	41.6	134	2	calcitonin gene-re
22	61.5	30.4	166	2	calcitonin gene-re
23	56.5	28.0	430	2	hypothetical prote
24	56.5	28.0	559	2	hypothetical prote
25	55	27.2	1051	2	TIF1 protein - mou
26	54.5	27.0	140	2	hypothetical 14.5K
27	54	26.7	444	2	hypothetical prote
28	54	26.7	444	2	probable transcrip
29	54	26.7	917	2	nitrate reductase

30	54	26.7	917	2	S35228	nitrate reductase
31	52.5	26.0	233	2	H72648	hypothetical prote
32	52	25.7	5147	1	IJFPTM	cadherin-related t
33	51.5	25.5	388	2	S57526	cellulase - Fibrob
34	51.5	25.5	436	2	A37953	transcription regu
35	51.5	25.5	638	2	B35816	transcription regu
36	51.5	25.5	649	1	B37953	transcription regu
37	51.5	25.5	649	2	A35816	transcription regu
38	51.5	25.5	1143	2	B84431	probable receptor
39	51	25.2	499	2	S46660	weta protein - Pen
40	51	25.2	555	1	RGASMA	regulatory protein
41	50.5	25.0	424	2	H84806	hypothetical prote
42	50	24.8	110	2	A55991	effector cell prot
43	50	24.8	337	2	A53041	effector cell prot
44	49.5	24.5	458	2	B33560	IL protein - human
45	49	24.3	243	2	B89977	hypothetical prote
46	49	24.3	294	2	T08408	transcription fact
47	49	24.3	359	2	S17905	hypothetical prote
48	49	24.3	1162	2	B97852	hypothetical prote
49	48.5	24.0	405	2	S66525	prostanoid recepto
50	48.5	24.0	844	2	T38730	probable helicase
51	48.5	24.0	1208	2	T27822	hypothetical prote
52	48	23.8	146	1	HGGLB	hemoglobin beta ch
53	48	23.8	146	1	HGSA	hemoglobin beta ch
54	48	23.8	219	2	HQ1778	SalF3L protein pre
55	48	23.8	256	2	F86856	hypothetical prote
56	48	23.8	599	2	S71134	UV-endonuclease -
57	48	23.8	621	2	S35092	plakoglobin - mous
58	48	23.8	636	2	D82679	hypothetical prote
59	48	23.8	1350	2	T30341	zinc finger protei
60	48	23.8	1687	2	T30244	phosphodiesterase
61	48	23.8	1719	2	T30174	exoribonuclease, v
62	48	23.8	1812	2	I49350	breast/ovarian can
63	48	23.8	2543	2	F69679	polyketide synthas
64	47.5	23.5	69	2	T44123	hypothetical prote
65	47.5	23.5	119	2	D71020	hypothetical prote
66	47.5	23.5	302	2	A32801	fimbrial adhesin p
67	47.5	23.5	320	2	S09208	chorion protein s3
68	47.5	23.5	718	2	A82352	iron(III) compound
69	47	23.3	146	1	HGGS	hemoglobin beta ch
70	47	23.3	146	1	HGSGC	hemoglobin beta ch
71	47	23.3	146	1	HGSGI	hemoglobin beta ch
72	47	23.3	146	1	HGSS	hemoglobin beta ch
73	47	23.3	146	1	HBWS	hemoglobin beta ch
74	47	23.3	147	1	HFCHR	hemoglobin rho cha
75	47	23.3	164	2	G75371	hypothetical prote
76	47	23.3	189	2	D97064	spore coat protein
77	47	23.3	309	2	A83702	inosine-uridine nu
78	47	23.3	324	2	F84913	probable FCA-relat
79	47	23.3	324	2	T08729	RING zinc finger p
80	47	23.3	326	1	JQ1238	zinc finger protei
81	47	23.3	366	2	T18820	hypothetical prote
82	47	23.3	388	2	T32307	hypothetical prote
83	47	23.3	470	2	D90323	hypothetical prote
84	47	23.3	470	2	F90347	hypothetical prote
85	47	23.3	517	2	T43358	hnf-3/forhead tra
86	47	23.3	535	2	T32139	hypothetical prote
87	47	23.3	539	2	T38927	hypothetical prote
88	47	23.3	594	2	T05544	hypothetical prote
89	47	23.3	604	2	T31042	hypothetical prote
90	47	23.3	1450	2	T30273	hypothetical prote
91	46.5	23.0	623	2	T40991	probable lysosomop
92	46.5	23.0	727	2	T15294	hypothetical prote
93	46.5	23.0	1306	2	S72620	probable reverse t
94	46.5	23.0	1209	2	H86650	protein TSP18.3 [i
95	46.5	23.0	1787	2	AG1360	probable tape-meas
96	46.5	23.0	1788	2	AH1447	probable tape-meas
97	46.5	23.0	1896	2	T08851	Down syndrome cell
98	46	22.8	122	2	T15766	hypothetical prote
99	46	22.8	149	2	T49200	hypothetical prote
100	46	22.8	176	2	AC0207	probable exported

ALIGNMENTS

RESULT 1

C33542
islet amyloid polypeptide precursor - mouse
N/Alternate names: insulinoma amyloid protein
C/Species: Mus musculus (house mouse)
C/Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C/Accession: C33542; S05039
R/Nishii, M.; Chan, S.U.; Nagamatsu, S.; Bell, G.I.; Steiner, D.F.
Proc. Natl. Acad. Sci. U.S.A. 86, 5738-5742, 1989
A/Title: Conservation of the sequence of islet amyloid polypeptide in five mammals is confirmed
A/Reference number: A33542; MUID:89345542; PMID:2668946
A/Accession: C33542
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-93 <NIS>
A/Cross-references: UNIPROT:P12968; UNIPARC:UPI000001A43; GB:M25389; NID:G194066; PIDN:
A/Note: the authors translated the codon CTG for residue 18 as Ser, and CTC for residue
R/Betscholtz, C.; Christman, L.; Engstrom, U.; Rorsman, F.; Svensson, V.; Johnson, K
FEBS Lett. 251, 261-264, 1989
A/Title: Sequence divergence in a specific region of islet amyloid polypeptide (IAPP) ex
A/Reference number: S05037; MUID:89325677; PMID:2666169
A/Accession: S05039
A/Status: not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 38-74 <BET>
A/Cross-references: UNIPARC:UPI000003519C
A/Note: the authors found both the full length protein and a short form in the pancreas
C/Keywords: amyloid

Query Match 92.6%; Score 187; DB 1; Length 93;

Best Local Similarity 91.9%; Pred. No. 1.7e-18; Mismatches 2; Indels 0; Gaps 0;

Matches 34; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

Db 38 KCNTATCATQRLANFLVHSSNNLGPVLPTNVGSNTY 74

RESULT 2

TCRTIA
islet amyloid polypeptide precursor - rat
N/Alternate names: amylin precursor; diabetes-associated peptide; insulinoma amyloid pro
C/Species: Rattus norvegicus (Norway rat)
C/Date: 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change 09-Jul-2004
C/Accession: S13566; A30312; A33542; A33426; S05038; A35481
R/van Mansfeld, A.D.M.; Mosselman, S.; Hoepfener, J.W.M.; Zandberg, J.; van Teeffelen, H
Biochim. Biophys. Acta 1087, 235-240, 1990
A/Title: Islet amyloid polypeptide: structure and upstream sequences of the IAPP gene in
A/Reference number: S13566; MUID:91027936; PMID:2223885
A/Accession: S13566
A/Molecule type: DNA
A/Residues: 1-93 <VAN>
A/Cross-references: UNIPROT:P12969; UNIPARC:UPI000012D0CA; EMBL:X52820; NID:G56394; PIDN:
R/Lefvert, J.D.; Newgard, C.B.; Okamoto, H.; Milburn, J.L.; Luskey, K.L.
Proc. Natl. Acad. Sci. U.S.A. 86, 3127-3130, 1989
A/Title: Rat amylin: cloning and tissue-specific expression in pancreatic islets.
A/Reference number: A30312; MUID:89240689; PMID:2654937
A/Accession: A30312
A/Molecule type: mRNA
A/Residues: 1-93 <LEF>
A/Cross-references: UNIPARC:UPI000012D0CA; GB:J04544; NID:G202887; PIDN:AAA40730.1; PID:
R/Nishii, M.; Chan, S.U.; Nagamatsu, S.; Bell, G.I.; Steiner, D.F.
Proc. Natl. Acad. Sci. U.S.A. 86, 5738-5742, 1989
A/Title: Conservation of the sequence of islet amyloid polypeptide in five mammals is co
A/Reference number: A33542; MUID:89345542; PMID:2668946
A/Accession: B33542
A/Molecule type: mRNA
A/Residues: 1-93 <NIS>
A/Cross-references: UNIPARC:UPI000012D0CA; GB:M25390; NID:G204676; PIDN:AAA41359.1; PID:
R/Asai, J.; Nakazato, M.; Kangawa, K.; Matsukura, S.; Matsuo, H.

Biochem. Biophys. Res. Commun. 164, 400-405, 1989
A/Title: Isolation and sequence determination of rat islet amyloid polypeptide.
A/Reference number: A33426; MUID:90026410; PMID:2679555
A/Accession: A33426
A/Molecule type: protein
A/Residues: 38-74 <ASA>

A/Cross-references: UNIPARC:UPI000003519C
R/Betscholtz, C.; Christman, L.; Engstrom, U.; Rorsman, F.; Svensson, V.; Johnson, K
FEBS Lett. 251, 261-264, 1989
A/Title: Sequence divergence in a specific region of islet amyloid polypeptide (IAPP) ex
A/Reference number: S05037; MUID:89325677; PMID:2666169
A/Accession: S05038
A/Status: not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 38-74 <BET>
A/Cross-references: UNIPARC:UPI000003519C
R/Asai, J.; Nakazato, M.; Miyazato, K.; Matsuo, H.; Matsukura, S.
Biochem. Biophys. Res. Commun. 169, 788-795, 1990

A/Title: Regional distribution and molecular forms of rat islet amyloid polypeptide.
A/Reference number: A35481; MUID:90290528; PMID:2357234
A/Accession: A35481
A/Molecule type: protein
A/Residues: 38-74 <AS2>
A/Cross-references: UNIPARC:UPI000003519C
A/Accession: B35481
A/Molecule type: protein
A/Residues: 56-74 <AS3>
A/Cross-references: UNIPARC:UPI000003519C
A/Note: the authors found both the full length protein and a short form in the pancreas
C/Keywords: amidated carboxyl end; amyloid; pancreatic islet

E/1-23/Domain: signal sequence #status predicted <SIG>
E/24-37/Domain: amino-terminal propeptide #status predicted <PROL>
E/38-74/Product: insulinoma amyloid protein #status experimental <MAT>
E/76-93/Domain: carboxyl-terminal propeptide #status predicted <PRO2>
E/39-44/Disulfide bonds: #status predicted
E/74/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly

Query Match 92.6%; Score 187; DB 1; Length 93;

Best Local Similarity 91.9%; Pred. No. 1.7e-18; Mismatches 2; Indels 0; Gaps 0;

Matches 34; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

Db 38 KCNTATCATQRLANFLVHSSNNLGPVLPTNVGSNTY 74

RESULT 3

S05037
insulinoma amyloid protein - Chinese hamster
C/Species: Cricetulus griseus (Chinese hamster)
C/Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 09-Jul-2004
C/Accession: S05037
R/Betscholtz, C.; Christman, L.; Engstrom, U.; Rorsman, F.; Svensson, V.; Johnson, K
FEBS Lett. 251, 261-264, 1989
A/Title: Sequence divergence in a specific region of islet amyloid polypeptide (IAPP) ex
A/Reference number: S05037; MUID:89325677; PMID:2666169
A/Accession: S05037
A/Status: not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 1-37 <BET>
A/Cross-references: UNIPROT:P19890; UNIPARC:UPI00000466B2
C/Keywords: calcitonin

Query Match 91.1%; Score 184; DB 2; Length 37;

Best Local Similarity 89.2%; Pred. No. 1.7e-18; Mismatches 2; Indels 0; Gaps 0;

Matches 33; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPTNVGSNTY 37

A;Title: A novel peptide in the calcitonin gene related peptide family as an amyloid fibril precursor
A;Reference number: A26385; MUID:87048863; PMID:3535798
A;Accession: A26385
A;Molecule type: protein
A;Residues: 34; 'X', 36-39, 'S', 41-52 <WE2>
A;Cross-references: UNIPARC:UPI0000173499
R;Cort, J.; Liu, Z.; Lee, G.; Harris, S.M.; Prickett, K.S.; Gaeta, L.S.L.; Andersen, N.H. Biochem. Biophys. Res. Commun. 204, 1088-1095, 1994
A;Title: beta-Structure in human amylin and two designer beta-peptides: CD and NMR spectroscopy
A;Reference number: PC2383; MUID:95071438; PMID:7980582
A;Contents: annotation; circular dichroism and NMR studies
A;Comment: This protein is a major component of the islet amyloid deposited in the pancreas as a hormone.
C;Genetics:
A;Gene: GDB:IAPP
A;Map position: 12p12.3-12p12.1
A;Introns: 27/2
C;Superfamily: calcitonin
C;Keywords: amidated carboxyl end; amyloid; pancreatic islet; type 2 diabetes
F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-33/Domain: amino-terminal propeptide #status predicted <PRO1>
F;34-70/Product: islet amyloid polypeptide #status experimental <MAT>
F;50-70/Product: islet amyloid polypeptide (17-37) #status experimental <MAT2>
F;53-62/Domain: amyloid fibril-forming #status experimental <FIB>
F;72-89/Domain: carboxyl-terminal propeptide #status predicted <PRO2>
F;35-40/Disulfide bonds: #status predicted
F;70/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following glycosylation)

Query Match 88.1%; Score 178; DB 1; Length 89;
Best Local Similarity 91.9%; Pred. No. 2.8e-17;
Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KONTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 34 KONTATCATQRLANFLVHSSNNFGAILSPPTNVGSNTY 70
|||||

RESULT 6
A33542
islet amyloid polypeptide precursor - cat
C;Species: Felis silvestris catus (domestic cat)
C;Date: 21-Feb-1990 #sequence revision 21-Feb-1990 #text_change 09-Jul-2004
A;Accession: A33542; A60499; E26619
R;Nishi, M.; Chan, S.J.; Nagamatsu, S.; Bell, G.I.; Steiner, D.F. Proc. Natl. Acad. Sci. U.S.A. 86, 5738-5742, 1989
A;Title: Conservation of the sequence of islet amyloid polypeptide in five mammals is conserved
A;Reference number: A33542; MUID:89345542; PMID:2668946
A;Accession: A33542
A;Molecule type: mRNA
A;Residues: 1-89 <NIS>
A;Cross-references: UNIPROT:P12867; UNIPARC:UPI000012D0C3; GB:M25388; NID:g163861; PIDN:R;Besholtz, C.; Christmanson, L.; Engstroem, U.; Rorsman, F.; Jordan, K.; O'Brien, T.D. Diabetes 39, 118-122, 1990
A;Title: Structure of cat islet amyloid polypeptide and identification of amino acid residues
A;Reference number: A60499; MUID:91006862; PMID:2210054
A;Accession: A60499
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 34-70 <BET>
A;Cross-references: UNIPARC:UPI000003519A
R;Westermarck, P.; Wernstedt, C.; Willander, E.; Hayden, D.W.; O'Brien, T.D.; Johnson, K.H. Proc. Natl. Acad. Sci. U.S.A. 84, 3881-3885, 1987
A;Title: Amyloid fibrils in human insulinoma and islets of Langerhans of the diabetic cat
A;Reference number: A26619; MUID:87231921; PMID:3035556
A;Accession: B26619
A;Status: preliminary
A;Molecule type: protein
A;Residues: 34; 'X', 36-39, 'X', 41-60 <WES>
A;Cross-references: UNIPARC:UPI000002C9C0
C;Superfamily: calcitonin
C;Keywords: amidated carboxyl end; amyloid; pancreas

F;70/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following glycosylation)

Query Match 84.7%; Score 171; DB 2; Length 89;
Best Local Similarity 86.5%; Pred. No. 2.5e-16;
Matches 32; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KONTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 34 KONTATCATQRLANFLVHSSNNLGAALPPTNVGSNTY 70
|||||

RESULT 7
S22344

islet amyloid polypeptide precursor - dog
N;Alternate names: amylin precursor; IAPP; insulinoma amyloid protein
C;Species: Canis lupus familiaris (dog)
C;Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004
C;Accession: S22344; A35476
R;Albrandt, K.; Mull, E.; Cooper, G.J.S.; Johnson, M.J. Biochim. Biophys. Acta 1130, 97-99, 1992
A;Title: Nucleotide sequence of a cDNA for canine amylin.
A;Reference number: S22344; MUID:92182022; PMID:1543754
A;Accession: S22344
A;Molecule type: mRNA
A;Residues: 1-89 <ALB>
A;Cross-references: UNIPROT:P17716; UNIPARC:UPI000012D0C1; EMBL:X59998; NID:g870; PIDN:C
R;Jordan, K.; Murrcaugh, M.P.; O'Brien, T.D.; Westermarck, P.; Besholtz, C.; Johnson, K.H. Biochem. Biophys. Res. Commun. 169, 502-508, 1990
A;Title: Canine IAPP cDNA sequence provides important clues regarding diabetogenesis and
A;Reference number: A35476; MUID:90290487; PMID:2192709
A;Accession: A35476
A;Molecule type: mRNA
A;Residues: 43-66; 'T', 68 <JOR>
A;Cross-references: UNIPARC:UPI000016C3DA; GB:M37720; NID:g163960; PIDN:AAA30849.1; PID:R
C;Superfamily: calcitonin

Query Match 83.7%; Score 169; DB 2; Length 89;
Best Local Similarity 86.5%; Pred. No. 4.8e-16;
Matches 32; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KONTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 34 KONTATCATQRLANFLVHSSNNLGAALPPTNVGSNTY 70
|||||

RESULT 8
A36118

islet amyloid polypeptide precursor - degu
C;Species: Octodon degus (degu)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 09-Jul-2004
C;Accession: A36118
R;Nishi, M.; Steiner, D.F. Mol. Endocrinol. 4, 1192-1198, 1990
A;Title: Cloning of complementary DNAs encoding islet amyloid polypeptide, insulin, and
A;Reference number: A36118; MUID:91155953; PMID:2293024
A;Accession: A36118
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-91 <NIS>
A;Cross-references: UNIPROT:P22889; UNIPARC:UPI000012D0C7; GB:M57669; NID:g202469; PIDN:R
C;Superfamily: calcitonin

Query Match 79.2%; Score 160; DB 2; Length 91;
Best Local Similarity 81.1%; Pred. No. 8.4e-15;
Matches 30; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 KONTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 37 KONTATCATQRLANFLVHSSNNLGAALPPTNVGSNTY 73
|||||

RESULT 9
A56855


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Matches 20; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPIL 27
    ||||| ||||| ||||| ||||| |||||
Db 1 KXNTATXATQRLANFLIRSSXNLGAIL 27

RESULT 14
I46934
A:Title: amyloid polypeptide - rabbit (fragment)
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 09-Jul-2004
C:Accession: I46934
R:Christianson, L.; Betsholtz, C.; Leckstrom, A.; Engstrom, U.; Cortie, C.; Johnson, K.H.
Diabetologia 36, 183-188, 1993
A:Title: Islet amyloid polypeptide in the rabbit and European hare: studies on its relat
A:Reference number: I46933; MUID:93215963; PMID:8462765
A:Accession: I46934
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-23 <CHR>
A:Cross-references: UNIPROT:Q07334; UNIPARC:UPI000016C61B; GB:S57804; NID:g299058; PIDN:
C:Superfamily: calcitonin

Query Match 45.0%; Score 91; DB 2; Length 23;
Best Local Similarity 81.0%; Pred. No. 5.7e-06;
Matches 17; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 9 TORLANFLVHSSNFGPILPP 29
    ||||| ||||| ||||| ||||| |||||
Db 1 TORLANFLVHSSNFGAIFSP 21

RESULT 15
I37232
A:Title: calcitonin gene-related peptide 2 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004
C:Accession: I37232
R:Steenbergh, P.H.; Hoppener, J.W.; Zandberg, J.; Lips, C.J.; Jansz, H.S.
FEBS Lett. 183, 403-407, 1985
A:Title: A second human calcitonin/CGRP gene.
A:Reference number: I37232; MUID:85180007; PMID:2985435
A:Accession: I37232
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-72 <RES>
A:Cross-references: UNIPROT:P10092; UNIPARC:UPI000016A6C1; EMBL:X02404; NID:g29933; PIDN:
C:Superfamily: calcitonin

Query Match 42.6%; Score 86; DB 2; Length 72;
Best Local Similarity 50.0%; Pred. No. 8.9e-05;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
    ||||| ||||| ||||| ||||| |||||
Db 28 CNTATCVTHRLAGLLSRSGGVKSNFVPTNVGSKAF 63

RESULT 16
A25864
A:Title: calcitonin gene-related peptide beta precursor - human
N:Alternate names: calcitonin gene-related peptide II
C:Species: Homo sapiens (man)
C:Date: 30-Jun-1988 #sequence_revision 30-Jun-1988 #text_change 09-Jul-2004
C:Accession: A25864; JH0620; B26142; A34565
R:Steenbergh, P.H.; Hoppener, J.W.M.; Zandberg, J.; Visser, A.; Lips, C.J.M.; Jansz, H.
FEBS Lett. 209, 97-103, 1986
A:Title: Structure and expression of the human calcitonin/CGRP genes.
A:Reference number: A25864; MUID:87105923; PMID:3492393
A:Accession: A25864
A:Molecule type: DNA
A:Residues: 1-127 <STE>

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A:Cross-references: UNIPROT:P10092; UNIPARC:UPI0000126E36
R:Kitamura, K.; Kangawa, K.; Kawamoto, M.; Ichiki, Y.; Matsuo, H.; Eto, T.
Biochem. Biophys. Res. Commun. 185, 134-141, 1992
A:Title: Isolation and characterization of peptides which act on rat platelets, from a p
A:Reference number: JH0618; MUID:92287083; PMID:1318039
A:Accession: JH0620
A:Molecule type: protein
A:Residues: 82,'X','84-87,'X','89-104 <KIT>
A:Cross-references: UNIPARC:UPI0000176610
A:Experimental source: pеоchromocytoma
R:Petermann, J.B.; Born, W.; Chang, J.Y.; Fischer, J.A.
J. Biol. Chem. 262, 542-545, 1987
A:Title: Identification in the human central nervous system, pituitary, and thyroid of a
A:Reference number: A92637; MUID:87109142; PMID:3492492
A:Accession: B26142
A:Molecule type: protein
A:Residues: 82,'X','84-87,'X','89-91,'X','93-98,'X','100-105,'X','107-109 <PET>
A:Cross-references: UNIPARC:UPI0000176611
R:Wimalawansa, S.J.; Morris, H.R.; Etienne, A.; Blench, I.; Panico, M.; MacIntyre, I.
Biochem. Biophys. Res. Commun. 167, 993-1000, 1990
A:Title: Isolation, purification and characterization of beta-hCGRP from human spinal co
A:Reference number: A34565; MUID:90211348; PMID:2322288
A:Accession: A34565
A:Molecule type: protein
A:Residues: 82-86;104-117 <WIM>
A:Cross-references: UNIPARC:UPI0000176612; UNIPARC:UPI0000176613
C:Comment: Calcitonin gene-related-peptide II peptide is a potent vasorelaxant.
C:Genetics:
A:Gene: GDB:CALCB; CALC2
A:Cross-references: GDB:120572; OMIM:114160
A:Map position: 11p15.2-11p15.1
C:Superfamily: calcitonin
C:Keywords: amidated carboxyl end; neuropeptide
F:82-118/Product: calcitonin gene-related peptide beta #status experimental <MAT>
F:83-88/Dialfide bonds: #status experimental
F:118/Modified site: amidated carboxyl end (Phe) (amide in mature form from following gl

Query Match 42.6%; Score 86; DB 2; Length 127;
Best Local Similarity 50.0%; Pred. No. 0.00016;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
    ||||| ||||| ||||| ||||| |||||
Db 83 CNTATCVTHRLAGLLSRSGGVKSNFVPTNVGSKAF 118

RESULT 17
JH0709
A:Title: calcitonin gene-related peptide - sheep
C:Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
C:Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004
C:Accession: JH0709
R:Miyata, A.; Jiang, L.; Minamino, N.; Arimura, A.
Biochem. Biophys. Res. Commun. 187, 1474-1479, 1992
A:Title: Identification of calcitonin gene related peptide in ovine hypothalamic extract
A:Reference number: JH0709; MUID:93038624; PMID:1417824
A:Accession: JH0709
A:Molecule type: protein
A:Residues: 1-37 <MIY>
A:Cross-references: UNIPROT:P30881; UNIPARC:UPI0000035153
A:Experimental source: hypothalamus
C:Comment: This protein has adenylyate cyclase stimulating activity.
C:Superfamily: calcitonin
C:Keywords: amidated carboxyl end; neuropeptide
F:37/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 42.1%; Score 85; DB 2; Length 37;
Best Local Similarity 50.0%; Pred. No. 6.2e-05;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
    ||||| ||||| ||||| ||||| |||||
Db 2 CNTATCVTHRLAGLLSRSGGVKSNFVPTNVGSKAF 37

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RESULT 18
TCRTR
calcitonin gene-related peptide precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 19-Feb-1984 #sequence_revision 19-Feb-1984 #text_change 09-Jul-2004
C:Accession: A01524; B22949
R:Amara, S.G.; Jonas, V.; Rosenfeld, M.G.; Ong, E.S.; Evans, R.M.
Nature 298, 240-244, 1982
A:Title: Alternative RNA processing in calcitonin gene expression generates mRNAs encoding
A:Reference number: A01524; MUID:82220111; PMID:6283379
A:Accession: A01524
A:Molecule type: mRNA
A:Residues: 1-128 <AMA>
A:Cross-references: UNIPROT:P01256; UNIPARC:UPI00001708AA; GB:L29188; GB:J00714; GB:N000
R:Jonas, V.; Lin, C.R.; Kawashima, E.; Semon, D.; Swanson, L.W.; Mermod, J.J.; Evans, R.
Proc. Natl. Acad. Sci. U.S.A. 82, 1994-1998, 1985
A:Title: Alternative RNA processing events in human calcitonin/calcitonin gene-related p
A:Reference number: A94030; MUID:85166259; PMID:3872459
A:Accession: B22949
A:Molecule type: mRNA
A:Residues: 1-39, 'A', 40-49, 'L', 50-67, 70-128 <JON>
A:Cross-references: UNIPARC:UPI0000126E33
C:Superfamily: calcitonin
C:Keywords: alternative splicing; amidated carboxyl end; neuropeptide
F:1-25/Domain: signal sequence #status predicted <SIG>
F:83-119/Product: calcitonin gene-related peptide #status predicted <MAT>
F:84-89/Disulfide bonds: #status predicted
F:119/Modified site: amidated carboxyl end (Phe) (amide in mature form from following gl

Query Match 42.1%; Score 85; DB 1; Length 128;
Best Local Similarity 50.0%; Pred. No. 0.00022;
Matches 18; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 2 CNTATCATORLANFLVHSSNNFGPILPTNVGNSNTY 37
      ||||| ||||| ||||| ||||| ||||| :
DB 84 CNTATCVTHRLAGLSRSGGVKDNFVPTNVGSEAF 119
      ||||| ||||| ||||| ||||| ||||| :

RESULT 19
TCCHUR
calcitonin gene-related peptide alpha precursor [validated] - human
N:Alternate names: calcitonin gene-related peptide I; CGRP-I
C:Species: Homo sapiens (man)
C>Date: 30-Sep-1987 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: S07644; A22949; B22716; I55536; J00005; S10813; A26142; JH0619; I52204; I84
R:Broad, P.M.; Symes, A.J.; Thakker, R.V.; Craig, R.K.
Nucleic Acids Res. 17, 6999-7011, 1989
A:Title: Structure and methylation of the human calcitonin/alpha-CGRP gene.
A:Reference number: S07643; MUID:89386053; PMID:2571128
A:Accession: S07644
A:Molecule type: DNA
A:Residues: 1-128 <BRO>
A:Cross-references: UNIPROT:P06881; UNIPARC:UPI0000126E30; EMBL:X15943; NID:g29613; PIDN
A:Note: the authors translated the codon CAG for residue 19 as Glu
R:Jonas, V.; Lin, C.R.; Kawashima, E.; Semon, D.; Swanson, L.W.; Mermod, J.J.; Evans, R.
Proc. Natl. Acad. Sci. U.S.A. 82, 1994-1998, 1985
A:Title: Alternative RNA processing events in human calcitonin/calcitonin gene-related p
A:Reference number: A94030; MUID:85166259; PMID:3872459
A:Accession: A22949
A:Molecule type: mRNA
A:Residues: 1-128 <JON>
A:Cross-references: UNIPARC:UPI0000126E30; GB:M12667; NID:gl79825; PIDN:AAAS1914.1; PID:
R:Edbrooke, M.R.; Parker, D.; McVey, J.H.; Riley, J.H.; Sorenson, G.D.; Pettengill, O.S.
EMBO J. 4, 715-724, 1985
A:Title: Expression of the human calcitonin/CGRP gene in lung and thyroid carcinoma.
A:Reference number: A91034; MUID:85230541; PMID:2408883
A:Accession: B22716
A:Molecule type: mRNA
A:Residues: 'V', 50-75, 'S', 76-128 <EDB>
A:Cross-references: UNIPARC:UPI000017349A
R:Steenbergh, P.H.; Hoppener, J.W.; Zandberg, J.; Van de Ven, W.J.; Jansz, H.S.; Lips, O
J. Clin. Endocrinol. Metab. 59, 358-360, 1984
A:Title: Calcitonin gene related peptide coding sequence is conserved in the human gene
A:Reference number: I55536; MUID:84240176; PMID:6610687
A:Accession: I55536
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 77-128 <RES>
A:Cross-references: UNIPARC:UPI000016A651; GB:M28637; NID:gl80467; PIDN:AAAS2012.1; PID
R:Morris, H.R.; Panico, M.; Etienne, T.; Tippins, J.; Gargis, S.I.; MacIntyre, I.
Nature 308, 746-748, 1984
A:Title: Isolation and characterization of human calcitonin gene-related peptide.
A:Reference number: A93329; MUID:84191466; PMID:6609312
A:Accession: J00005
A:Molecule type: protein
A:Residues: 83-119 <MOR>
A:Cross-references: UNIPARC:UPI000002B78E
A:Note: this peptide was detected in medullary thyroid carcinoma tissue and in plasma
R:Zaidi, M.; Brain, S.D.; Tippins, J.R.; di Marzo, V.; Moonga, B.S.; Chambers, T.J.; Mo.
Biochem. J. 269, 775-780, 1990
A:Title: Structure-activity relationship of human calcitonin-gene-related peptide.
A:Reference number: S10813; MUID:90358780; PMID:2390067
A:Accession: S10813
A:Molecule type: protein
A:Residues: 83-99, 'A', 101-119 <ZAI>
A:Cross-references: UNIPARC:UPI000017349B
R:Petermann, J.B.; Born, W.; Chang, J.Y.; Fischer, J.A.
J. Biol. Chem. 262, 542-545, 1987
A:Title: Identification in the human central nervous system, pituitary, and thyroid of a
A:Reference number: A92637; MUID:87109142; PMID:3492492
A:Accession: A26142
A:Molecule type: protein
A:Residues: 83-88, 'X', 90-101, 'X', 103-111, 'X', 113-115, 'X', 117 <PET>
A:Cross-references: UNIPARC:UPI000017349C
R:Kitamura, K.; Kangawa, K.; Kawamoto, M.; Ichiki, Y.; Matsuo, H.; Eto, T.
Biochem. Biophys. Res. Commun. 185, 134-141, 1992
A:Title: Isolation and characterization of peptides which act on rat platelets, from a
A:Reference number: JH0618; MUID:92287083; PMID:1318039
A:Accession: JH0619
A:Molecule type: protein
A:Residues: 83, 'X', 85-88, 'X', 90-108 <KIT>
A:Cross-references: UNIPARC:UPI000017349D
A:Experimental source: pheochromocytoma
R:Nelkin, B.D.; Rosenfeld, K.I.; de Bustros, A.; Leong, S.S.; Roos, B.A.; Baylin, S.B.
Biochem. Biophys. Res. Commun. 123, 648-655, 1984
A:Title: Structure and expression of a gene encoding human calcitonin and calcitonin gen
A:Reference number: I52204; MUID:85022523; PMID:6148938
A:Accession: I52204
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 48-119 <RE2>
A:Cross-references: UNIPARC:UPI000016A6C0; GB:K03512; NID:gl80465; PIDN:AAAS2011.1; PID
R:Craig, R.K.; Riley, J.H.; Edbrooke, M.R.; Broad, P.M.; Foord, S.M.; Al-Kazwini, S.J.;
Biochem. Soc. Symp. 52, 91-105, 1986
A:Title: Expression and function of the human calcitonin/alpha-CGRP gene in health and d
A:Reference number: I39387; MUID:87213363; PMID:3034287
A:Accession: I84508
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 77-128 <RE3>
A:Cross-references: UNIPARC:UPI000016A651; GB:M26094; NID:gl79798; PIDN:AAAS1912.1; PID
C:Comment: This peptide is a potent vasorelaxant.
C:Comment: This peptide increases the rate and force of contraction of rat auricles in v
C:Genetics:
A:Gene: GDB:CALCA; CALCI
A:Cross-references: GDB:120571; OMIM:114130
A:Map position: lip15.2-lip15.1
A:Introns: 29/2; 76/2
C:Superfamily: calcitonin
C:Keywords: alternative splicing; amidated carboxyl end; neuropeptide; vasodilator
F:83-119/Product: calcitonin gene-related peptide alpha #status experimental <CTN>
F:84-89/Disulfide bonds: #status experimental
F:119/Modified site: amidated carboxyl end (Phe) (amide in mature form from following gl
```



```
A:Molecule type: DNA
A:Residues: 1-917 <STO>
A:Cross-references: UNIPROT:P11832; UNIPARC:UPI00000011AFA; GB:AB005173; NID:G6437524; PID
C:Genetics:
A:Gene: P3288.9
A:Map position: 1
C:Superfamily: nitrate reductase (NADH); cytochrome b5 core homology; cytochrome-b5 redu
C:Keywords: heme; iron; metalloprotein
F:580,603/Binding site: heme iron (His) (axial ligands) #status predicted
Query Match 26.7%; Score 54; DB 2; Length 917;
Best Local Similarity 56.2%; Pred. No. 30;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
QY 14 NFLVHSSNNFGPIPLPP 29
DB 629 NVSVHGASNFGPLLAP 644
RESULT 30
nitrate reductase (NADH) (EC 1.7.1.1) 1 - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C:Accession: S35228; S01640; S16495; S32018
R:Wilkinson, J.O.; Crawford, N.M.
Mol. Gen. Genet. 239, 289-297, 1993
A:Title: Identification and characterization of a chlorate-resistant mutant of Arabidops
A:Reference number: S35228; MUID:93287999; PMID:8510658
A:Accession: S35228
A:Molecule type: DNA
A:Residues: 1-917 <WTL>
A:Cross-references: UNIPROT:P11832; UNIPARC:UPI000016DB93; EMBL:Z19050; NID:G22756; PIDN
R:Cheng, C.; Dewdney, J.; Nam, H.; den Boer, B.G.W.; Goodman, H.M.
EMBO J. 7, 3309-3314, 1988
A:Title: A new locus (NIA1) in Arabidopsis thaliana encoding nitrate reductase.
A:Reference number: S01640; MUID:89091069; PMID:2905260
A:Accession: S01640
A:Molecule type: mRNA
A:Residues: 525-917 <CHE1>
A:Cross-references: UNIPARC:UPI000016DB95; EMBL:X13434; NID:G16402; PIDN:CAA31786.1; PID
A:Note: translation of nucleotide sequence not complete
A:Accession: S16495
A>Status: translation not shown
A:Molecule type: DNA
A:Residues: 342-360 <CHE2>
A:Cross-references: UNIPARC:UPI000016DB94; EMBL:X13436; NID:G16401; PIDN:CAA31788.1; PID
C:Genetics:
A:Gene: NIA1
A:Map position: 1
A:Introns: 352/1; 399/1; 476/3
C:Complex: homodimer
C:Superfamily: nitrate reductase (NADH); cytochrome b5 core homology; cytochrome-b5 redu
C:Keywords: chromoprotein; electron transfer; FAD; flavoprotein; heme; homodimer; iron;
F:193-485/Domain: molybdopterin-binding domain homology <PCO>
F:545-619/Domain: cytochrome b5 core homology <CB5>
F:667-917/Domain: cytochrome-b5 reductase homology <CBR>
F:197/Binding site: molybdopterin (Cys) (covalent) #status predicted
F:436/Disulfide bonds: interchain #status predicted
F:580,603/Binding site: heme iron (His) (axial ligands) #status predicted
F:731,889/Binding site: NAD (Lys, Cys) #status predicted
F:771/Binding site: FAD (Tyr) #status predicted
Query Match 26.7%; Score 54; DB 2; Length 917;
Best Local Similarity 56.2%; Pred. No. 30;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
QY 14 NFLVHSSNNFGPIPLPP 29
DB 629 NVSVHGASNFGPLLAP 644
RESULT 31
```

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H72648
hypothetical protein AP80622 - Aeropyrum pernix (strain K1)
C:Species: Aeropyrum pernix
C:Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004
C:Accession: H72648
R:Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah
awa, H.; Takaniya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K
DNA Res. 6, 83-101, 1999
A:Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr
A:Reference number: A72450; MUID:99310339; PMID:10382966
A:Accession: H72648
A:Molecule type: DNA
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-233 <KAW>
A:Cross-references: UNIPROT:Q9YEF4; UNIPARC:UPI000005DC05; DDBJ:AP0000060; NID:G5104188;
A:Experimental source: strain K1
C:Genetics:
A:Gene: AP80622
Query Match 26.0%; Score 52.5; DB 2; Length 233;
Best Local Similarity 46.2%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 1; Gaps 1;
QY 10 QRLANFLVHS-SNNFGPIPLPTNVGS 34
DB 28 ERFAAFTTPSVSSNVTMLPPTSIAS 53
RESULT 32
IJUFFTM
cadherin-related tumor suppressor precursor - fruit fly (Drosophila melanogaster)
C:Species: Drosophila melanogaster
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Feb-1997
C:Accession: A41087; B41087
R:Mahoney, P.A.; Weber, U.; Onofrechuk, P.; Biessmann, H.; Bryant, P.J.; Goodman, C.S.
Cell 67, 853-868, 1991
A:Title: The fat tumor suppressor gene in Drosophila encodes a novel member of the cadhe
A:Reference number: A41087; MUID:92069752; PMID:1959133
A:Accession: A41087
A:Molecule type: mRNA
A:Residues: 143-485; 1279-5147 <MAH>
A:Cross-references: UNIPARC:UPI000017434B; UNIPARC:UPI000017434C; GB:M80537
A:Accession: B41087
A:Molecule type: DNA
A:Residues: 1-142; 487-1278 <MA2>
A:Cross-references: UNIPARC:UPI000017434D; UNIPARC:UPI000017434E; GB:M80537
A:Note: 1229-Gly and 1233-Ser were also found
C:Genetics:
A:Gene: fat
A:Cross-references: FlyBase:FBgn0001075
C:Superfamily: cadherin-related tumor suppressor; cadherin repeat homology; EGF homology
C:Keywords: calcium binding; cell adhesion; duplication; transmembrane protein
F:1-35/Domain: signal sequence #status predicted <SIG>
F:36-5147/Product: cadherin-related tumor suppressor #status predicted <MAT>
F:36-4583/Domain: extracellular #status predicted <EXT>
F:51-156/Domain: cadherin repeat homology <CR1>
F:159-270/Domain: cadherin repeat homology <CR2>
F:271-382/Domain: cadherin repeat homology <CR3>
F:390-494/Domain: cadherin repeat homology <CR4>
F:497-599/Domain: cadherin repeat homology <CR5>
F:602-708/Domain: cadherin repeat homology <CR6>
F:718-822/Domain: cadherin repeat homology <CR7>
F:831-942/Domain: cadherin repeat homology <CR8>
F:948-1049/Domain: cadherin repeat homology <CR9>
F:1052-1153/Domain: cadherin repeat homology <CR10>
F:1156-1278/Domain: cadherin repeat homology <CR11>
F:1281-1384/Domain: cadherin repeat homology <CR12>
F:1387-1489/Domain: cadherin repeat homology <CR13>
F:1492-1601/Domain: cadherin repeat homology <CR14>
F:1607-1713/Domain: cadherin repeat homology <CR15>
F:1717-1823/Domain: cadherin repeat homology <CR16>
F:1826-1922/Domain: cadherin repeat homology <CR17>
F:1925-2027/Domain: cadherin repeat homology <CR18>
```

RESULT 34
A37953
transcription regulator PAN-1 - golden hamster (fragment)
C/Species: Mesocricetus auratus (golden hamster)
C/Date: 06-Dec-1991 #sequence_revision 06-Dec-1991 #text_change 09-Jul-2004
C/Accession: A37953
R/German, M.S.; Bianar, M.A.; Nelson, C.; Moss, L.G.; Rutter, W.J.
Mol. Endocrinol. 5, 292-299, 1991
A/Title: Two related helix-loop-helix proteins participate in separate cell-specific com
A/Reference number: A37953; MUID:91246228; PMID:1710033
A/Accession: A37953
A/Status: preliminary; not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 1-436 <GER>
A/Cross-references: UNIPROT:P98180; UNIPARC:UPI00000176415

```

Query Match      25.5%; Score 51.5; DB 1; Length 649;
Best Local Similarity 70.6%; Pred. No. 46;
Matches 12; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY  18 HSSNNFGPILPPTNVGS 34
      ||||| | | | |
Db  340 HSSNNFSP-SPSTPVGS 355

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RESULT 37
A35816
transcription regulator Pan-2 - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 12-Oct-1990 #sequence_revision 12-Oct-1990 #text_change 09-Jul-2004
C:Accession: A35816
R:Nelson, C.; Shen, L.P.; Meister, A.; Fodor, E.; Rutter, W.J.
Genes Dev. 4, 1035-1043, 1990
A>Title: Pan: a transcriptional regulator that binds chymotrypsin, insulin, and AP-4 enh
A/Reference number: A35816; MUID:90346284; PMID:2200736
A/Accession: A35816
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-649 <NEL>
A/Cross-references: UNIPROT:P21677; UNIPARC:UPI0000136C82; GB:X54549; NID:g35278; PIDN:C
C:Superfamily: human transcription factor 3
C/Keywords: alternative splicing; DNA binding; nucleus; transcription regulation

Query Match      25.5%; Score 51.5; DB 2; Length 649;
Best Local Similarity 70.6%; Pred. No. 46;
Matches 12; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Qy 18 HSSNFGPILPPTNVGS 34
      |||||
Db 340 HSSNFPSP-STPTVGS 355

RESULT 38
B84431
probable receptor protein kinase [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 31-Dec-2004
C:Accession: B84431
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Unayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J
Nature 402, 761-768, 1999
A>Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A/Reference number: A84420; MUID:20083487; PMID:10617197
A/Accession: B84431
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-1143 <STO>
A/Cross-references: UNIPROT:Q9Z2P9; UNIPARC:UPI00000484D4; GB:AE002093; NID:g4406778; PI
C:Genetics:
A/Gene: At2g01950
A/Map position: 2
C:Superfamily: Receptor-like protein kinase

Query Match      25.5%; Score 51.5; DB 2; Length 1143;
Best Local Similarity 40.0%; Pred. No. 82;
Matches 10; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

Qy 5 ATCATQRLANFLVHSSNNFGPILPP 29
      : : : : :
Db 347 SACKSLRIADP---SSNRFSGVIPP 368

RESULT 39
S46660
weta protein - Penicillium chrysogenum
C:Species: Penicillium chrysogenum
C>Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 09-Jul-2004
C:Accession: S46660
R:Prade, R.A.; Timberlake, W.E.
Mol. Gen. Genet. 244, 539-547, 1994
A>Title: The Penicillium chrysogenum and Aspergillus nidulans weta developmental regulat
A/Reference number: S46660; MUID:94359480; PMID:8078481
A/Accession: S46660
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-499 <PRA>
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A/Cross-references: UNIPROT:Q01870; UNIPARC:UPI00000138EF9; EMBL:X80058; NID:g510873; PID
C:Superfamily: regulatory protein weta

Query Match      25.2%; Score 51; DB 2; Length 499;
Best Local Similarity 50.0%; Pred. No. 41;
Matches 10; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy 10 QRLANFLVHSSNNFGPILPP 29
      |||||
Db 180 QRLQNFSLHGSDELRPLSP 199

RESULT 40
RGASWA
regulatory protein weta - Emericella nidulans
C:Species: Emericella nidulans, Aspergillus nidulans
C>Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 09-Jul-2004
C:Accession: A39665
R:Marshall, M.A.; Timberlake, W.E.
Mol. Cell. Biol. 11, 55-62, 1991
A>Title: Aspergillus nidulans weta activates spore-specific gene expression.
A/Reference number: A39665; MUID:91094871; PMID:1986246
A/Accession: A39665
A/Molecule type: DNA
A/Residues: 1-555 <MAR>
A/Cross-references: UNIPROT:P22022; UNIPARC:UPI0000138EF8; GB:M60528; GB:M35758; NID:g16
C:Comment: The products of the genes brlA, abaA, and weta are required for activation of
C:Genetics:
A/Gene: weta
C:Superfamily: regulatory protein weta
C/Keywords: transcription regulation

Query Match      25.2%; Score 51; DB 1; Length 555;
Best Local Similarity 50.0%; Pred. No. 46;
Matches 10; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy 10 QRLANFLVHSSNNFGPILPP 29
      |||||
Db 189 QRLQNFTRSSDECLPUSPP 208

RESULT 41
H84806
hypothetical protein At2g38590 [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 31-Dec-2004
C:Accession: H84806
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Unayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J
Nature 402, 761-768, 1999
A>Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A/Reference number: A84420; MUID:20083487; PMID:10617197
A/Accession: H84806
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-424 <STO>
A/Cross-references: UNIPROT:Q9ZV11; UNIPARC:UPI000000A54B6; GB:AE002093; NID:g3786013; PI
C:Genetics:
A/Gene: At2g38590
A/Map position: 2
C:Superfamily: hypothetical protein containing F-box domain

Query Match      25.0%; Score 50.5; DB 2; Length 424;
Best Local Similarity 34.1%; Pred. No. 40;
Matches 15; Conservative 8; Mismatches 12; Indels 9; Gaps 3;

Qy 3 NTATCATQRLA--NFLVH-----SSNFGPILP-PTNVGSNTY 37
      |||||
Db 225 NTYWCACKERAEDDIVDHIISFDFTNERFGLLPLPSKVMHEHY 268

RESULT 42
```


RESULT 45

B89977

hypothetical protein SA1707 [imported] - Staphylococcus aureus (strain N315)

C:Species: Staphylococcus aureus

C>Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004

C:Accession: B89977

R:Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguni, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kato, C.; Sekimizu, K.; C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.

Lancet 357, 1225-1240, 2001

A:Title: Whole genome sequencing of methicillin-resistant Staphylococcus aureus.

A:Reference number: A89758; MUID:21311952; PMID:11418146

A:Accession: B89977

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-243 <KUR>

A:Cross-references: UNIPROT:Q99SZ5; UNIPARC:UPI00000D77A4; GB:BA0000018; PID:gl3701684; 1

A:Experimental source: strain N315

C:Genetics:

A:Gene: SA1707

Query Match 24.3%; Score 49; DB 2; Length 243;

Best Local Similarity 41.4%; Pred. No. 37;

Matches 12; Conservative 3; Mismatches 14; Indels 0; Gaps 0;

QY 9 TORLANFLVHSSNFGPILPPTNVGSNTY 37

DB 126 TNRLTGDIVESDTFTGIIVGFENHGRTY 154

RESULT 46

T08408

transcription factor homolog F18B3.150 - Arabidopsis thaliana

C:Species: Arabidopsis thaliana (mouse-ear cress)

C>Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C:Accession: T08408

R:Quetier, F.; Rieger, M.; Gabel, C.; Mueller-Auer, S.; Schaefer, M.; Zipp, M.; Salanoubat submitted to the Protein Sequence Database, May 1999

A:Reference number: Z16409

A:Accession: T08408

A:Molecule type: DNA

A:Residues: 1-294 <QUE>

A:Cross-references: UNIPROT:Q9SVL2; UNIPARC:UPI00000A322F; EMBL:AL049862; GSPDB:GN000061;

A:Experimental source: cultivar Columbia; BAC clone F18B3

C:Genetics:

A:Gene: ATSP:F18B3.150

A:Map position: 3

A:Introns: 172/3

Query Match 24.3%; Score 49; DB 2; Length 294;

Best Local Similarity 35.3%; Pred. No. 44;

Matches 12; Conservative 8; Mismatches 12; Indels 2; Gaps 1;

QY 3 NTATCATQRLANF--LVHSSNNFGPILPPTNVGS 34

DB 89 SISGASSCISNFDLIHTKNNNSKTAPYNNVPS 122

RESULT 47

S17905

hypothetical protein M1 - La France disease virus

C:Species: La France disease virus

C>Date: 19-Mar-1997 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004

C:Accession: S17905

R:Harmsen, M.C.; Tolner, B.; Kram, A.; Go, S.J.; de Haan, A.; Weesels, J.G.H.

Curr. Genet. 20, 137-144, 1991

A:Title: Sequences of three dsRNAs associated with La France disease of the cultivated m

A:Reference number: S17904; MUID:92035060; PMID:1934110

A:Accession: S17905

A>Status: preliminary

A:Molecule type: mRNA

A;Residues: 1-359 <HAR>
A;Cross-references: UNIPROT:Q83036; UNIPARC:UPI00000F4376; GB:D10829; GB:D00483; NID:G22
C;Superfamily: La France disease virus hypothetical protein M1

Query Match 24.3%; Score 49; DB 2; Length 359;
Best Local Similarity 37.0%; Pred. No. 55;
Matches 10; Conservative 5; Mismatches 10; Indels 2; Gaps 1;

Qy 7 CATQRLANFLVHSSNNFGPILPPTNVG 33
Db 272 CKTELTEFTSGTNSSPGP--PPKRDG 296

RESULT 48

B97852
hypothetical protein RC1218 [imported] - Rickettsia conorii (strain Malish 7)
C;Species: Rickettsia conorii
C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
C;Accession: B97852
R;Ogata, H.; Audic, S.; Reneato-Audiffren, P.; Fournier, P.E.; Barbe, V.; Samson, D.; R
Science 293, 2093-2098, 2001
A;Title: Mechanisms of Evolution in Rickettsia conorii and Rickettsia prowazekii.
A;Reference number: A97700; MUID:21442074; PMID:11557893
A;Accession: B97852
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-1162 <KUR>
A;Cross-references: UNIPROT:Q92GA5; UNIPARC:UPI00000CC033; GB:AE006914; PIDN:AAL03756.1;
C;Genetics:
A;Gene: RC1218
C;Superfamily: Rickettsia prowazekii hypothetical protein RP785

Query Match 24.3%; Score 49; DB 2; Length 1162;
Best Local Similarity 35.5%; Pred. No. 1.8e+02;
Matches 11; Conservative 2; Mismatches 18; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTN 31
Db 840 KANTPICVLSDYTDRIEKPENIGPILVPVD 870

RESULT 49

S66525
prostanoid receptor EP1 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C;Accession: S66525; A48005
R;Batschake, B.; Nilsson, C.; Sundelin, J.
Eur. J. Biochem. 231, 809-814, 1995
A;Title: Molecular characterization of the mouse prostanoid EP(1) receptor gene.
A;Reference number: S66525; MUID:95377316; PMID:7649181
A;Accession: S66525
A;Molecule type: DNA
A;Residues: 1-405 <BAT>
A;Cross-references: UNIPROT:P35375; UNIPARC:UPI00000216D7; EMBL:Z49987; NID:G1197340; PI
R;Watabe, A.; Sugimoto, Y.; Honda, A.; Irie, A.; Namba, T.; Negishi, M.; Ito, S.; Narumi
J. Biol. Chem. 268, 20175-20178, 1993
A;Title: Cloning and expression of cDNA for a mouse EP1 subtype of prostaglandin E recep
A;Reference number: A48005; MUID:93388584; PMID:7690750
A;Accession: A48005
A;Molecule type: nucleic acid
A;Residues: 1-405 <WAT>
A;Cross-references: UNIPARC:UPI00000216D7; GB:D16338; NID:G439232; PIDN:BAA03842.1; PID:
A;Experimental source: lung
A;Note: sequence extracted from NCBI backbone (NCBIN:137716, NCBI:P:137717)
C;Genetics:
A;Introns: 317/3
C;Superfamily: prostaglandin E receptor EP1

C;Keywords: G protein-coupled receptor; glycoprotein; transmembrane protein
F;40-62/Domain: transmembrane #status predicted <TM1>
F;81-99/Domain: transmembrane #status predicted <TM2>
F;114-135/Domain: transmembrane #status predicted <TM3>
F;158-179/Domain: transmembrane #status predicted <TM4>

F;203-228/Domain: transmembrane #status predicted <TM5>
F;302-323/Domain: transmembrane #status predicted <TM6>
F;338-357/Domain: transmembrane #status predicted <TM7>

Query Match 24.0%; Score 48.5; DB 2; Length 405;
Best Local Similarity 48.1%; Pred. No. 72;
Matches 13; Conservative 0; Mismatches 11; Indels 3; Gaps 1;

Qy 5 ATCATQRLAN---FLVHSSNNFGPILP 28
Db 15 ATCATPRLPNTSVVLPTGDNGTSPALP 41

RESULT 50

T38730
probable helicase - fission yeast (Schizosaccharomyces pombe)
C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: T38730
R;Gentles, S.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Wood, V.
submitted to the EMBL Data Library, September 1997
A;Reference number: Z21797
A;Accession: T38730
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-844 <GEN>
A;Cross-references: UNIPROT:O14147; UNIPARC:UPI000006A4EE; EMBL:Z99167; PIDN:CAB16287.1;
A;Experimental source: strain 972h-; cosmid c3G6
C;Genetics:
A;Gene: SPDB:SPAC3G6.11
A;Map position: 1
A;Introns: 213/3; 278/1

Query Match 24.0%; Score 48.5; DB 2; Length 844;
Best Local Similarity 47.6%; Pred. No. 1.5e+02;
Matches 10; Conservative 5; Mismatches 3; Indels 3; Gaps 1;

Qy 10 QRLANFL---VHSSNNFGPIL 27
Db 810 RKLPNWLSKNHSSPNFGPAI 830

Search completed: May 12, 2006, 15:22:47
Job time : 42 secs

GenCore version 5.1.1.8
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OM protein - protein search, using sw model

Run on: May 12, 2006, 15:22:21 ; Search time 48 Seconds
(without alignments)
63.729 Million cell updates/sec

Title: US-08-870-762B-1

Perfect score: 202

Sequence: 1 KNTATCATQRLANFLVHSSNNFGPILPTNVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/prodata/1/1aa/6_COMB.pep.*

3: /cgn2_6/prodata/1/1aa/H_COMB.pep.*

4: /cgn2_6/prodata/1/1aa/PCITUS_COMB.pep.*

5: /cgn2_6/prodata/1/1aa/RE_COMB.pep.*

6: /cgn2_6/prodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	202	100.0	37	1	US-08-477-727A-81
4	202	100.0	37	1	US-08-477-727A-87
5	202	100.0	37	1	US-08-471-675A-2
6	202	100.0	37	1	US-08-892-549-9
7	202	100.0	37	2	US-08-302-069A-1
8	202	100.0	37	2	US-09-576-062A-1
9	202	100.0	37	2	US-09-454-533-9
10	201	99.5	37	1	US-08-477-727A-84
11	201	99.5	37	1	US-08-477-727A-97
12	201	99.5	37	1	US-08-471-675A-8
13	201	99.5	37	1	US-08-471-675A-19
14	201	99.5	37	1	US-08-892-549-12
15	201	99.5	37	2	US-08-302-069A-7
16	201	99.5	37	2	US-08-302-069A-18
17	201	99.5	37	2	US-09-576-062A-7
18	201	99.5	37	2	US-09-576-062A-18
19	201	99.5	37	2	US-09-454-533-12
20	199	98.5	37	1	US-08-477-727A-5
21	199	98.5	37	1	US-08-477-727A-30
22	197	97.5	36	1	US-08-477-727A-88
23	197	97.5	36	1	US-08-471-675A-11
24	197	97.5	36	2	US-08-302-069A-10
25	197	97.5	36	2	US-09-576-062A-10
26	196	97.0	37	1	US-08-477-727A-77
27	195	96.5	37	1	US-08-477-727A-90

28	195	96.5	37	1	US-08-477-727A-96	Sequence 96, Appl
29	195	96.5	37	1	US-08-471-675A-12	Sequence 12, Appl
30	195	96.5	37	1	US-08-471-675A-18	Sequence 18, Appl
31	195	96.5	37	1	US-08-892-549-16	Sequence 16, Appl
32	195	96.5	37	1	US-08-892-549-22	Sequence 22, Appl
33	195	96.5	37	2	US-08-302-069A-11	Sequence 11, Appl
34	195	96.5	37	2	US-08-302-069A-17	Sequence 17, Appl
35	195	96.5	37	2	US-09-576-062A-11	Sequence 11, Appl
36	195	96.5	37	2	US-09-576-062A-17	Sequence 17, Appl
37	195	96.5	37	2	US-09-454-533-16	Sequence 16, Appl
38	194	96.0	37	2	US-09-454-533-22	Sequence 22, Appl
39	194	96.0	37	1	US-08-471-675A-9	Sequence 9, Appl
40	194	96.0	37	1	US-08-892-549-13	Sequence 13, Appl
41	194	96.0	37	2	US-08-892-549-38	Sequence 38, Appl
42	194	96.0	37	2	US-08-302-069A-8	Sequence 8, Appl
43	194	96.0	37	2	US-09-576-062A-8	Sequence 8, Appl
44	194	96.0	37	2	US-09-454-533-13	Sequence 13, Appl
45	194	96.0	37	2	US-09-454-533-38	Sequence 38, Appl
46	193	95.5	36	2	US-08-892-549-15	Sequence 15, Appl
47	193	95.5	36	2	US-09-454-533-15	Sequence 15, Appl
48	193	95.5	37	1	US-08-477-727A-17	Sequence 17, Appl
49	193	95.5	37	1	US-08-477-727A-42	Sequence 42, Appl
50	193	95.5	37	1	US-08-477-727A-89	Sequence 89, Appl
51	192	95.0	36	1	US-08-892-549-40	Sequence 40, Appl
52	192	95.0	36	2	US-09-454-533-40	Sequence 40, Appl
53	192	95.0	37	1	US-08-477-727A-75	Sequence 75, Appl
54	191	94.6	37	1	US-08-892-549-23	Sequence 23, Appl
55	191	94.6	37	2	US-09-454-533-23	Sequence 23, Appl
56	190	94.1	36	1	US-08-477-727A-98	Sequence 98, Appl
57	190	94.1	36	1	US-08-471-675A-20	Sequence 20, Appl
58	190	94.1	36	2	US-08-892-549-24	Sequence 24, Appl
59	190	94.1	36	2	US-08-302-069A-19	Sequence 19, Appl
60	190	94.1	36	2	US-09-576-062A-19	Sequence 19, Appl
61	190	94.1	36	2	US-09-454-533-24	Sequence 24, Appl
62	189	93.6	36	1	US-08-477-727A-86	Sequence 86, Appl
63	189	93.6	36	1	US-08-892-549-39	Sequence 39, Appl
64	189	93.6	36	2	US-08-302-069A-9	Sequence 9, Appl
65	189	93.6	36	2	US-09-576-062A-9	Sequence 9, Appl
66	189	93.6	37	2	US-09-454-533-39	Sequence 39, Appl
67	188	93.1	37	1	US-08-477-727A-94	Sequence 94, Appl
68	188	93.1	37	1	US-08-471-675A-16	Sequence 16, Appl
69	188	93.1	37	1	US-08-892-549-20	Sequence 20, Appl
70	188	93.1	37	2	US-08-302-069A-15	Sequence 15, Appl
71	188	93.1	37	2	US-09-576-062A-15	Sequence 15, Appl
72	188	93.1	37	2	US-09-454-533-20	Sequence 20, Appl
73	187	92.6	37	1	US-07-794-288D-2	Sequence 2, Appl
74	187	92.6	37	1	US-08-477-727A-91	Sequence 91, Appl
75	187	92.6	37	1	US-08-471-675A-13	Sequence 13, Appl
76	187	92.6	37	1	US-08-259-762-9	Sequence 9, Appl
77	187	92.6	37	1	US-08-892-549-4	Sequence 4, Appl
78	187	92.6	37	1	US-08-892-549-17	Sequence 17, Appl
79	187	92.6	37	2	US-08-784-582-51	Sequence 51, Appl
80	187	92.6	37	2	US-08-302-069A-12	Sequence 12, Appl
81	187	92.6	37	2	US-09-070-504-17	Sequence 17, Appl
82	187	92.6	37	2	US-09-576-062A-12	Sequence 12, Appl
83	187	92.6	37	2	US-09-454-533-4	Sequence 4, Appl
84	187	92.6	37	2	US-09-454-533-17	Sequence 17, Appl
85	187	92.6	37	2	US-09-813-345C-17	Sequence 17, Appl
86	187	92.6	37	2	US-09-623-548A-321	Sequence 321, App
87	187	92.6	37	2	US-09-623-548A-334	Sequence 334, App
88	187	92.6	37	2	US-09-657-276-321	Sequence 321, App
89	187	92.6	37	2	US-09-657-276-334	Sequence 334, App
90	187	92.6	93	2	US-08-589-028-8	Sequence 8, Appl
91	187	92.6	93	2	US-08-784-582-8	Sequence 8, Appl
92	187	92.6	93	2	US-08-785-271-8	Sequence 8, Appl
93	186	92.1	37	1	US-08-477-727A-80	Sequence 80, Appl
94	186	92.1	37	1	US-08-477-727A-82	Sequence 82, Appl
95	186	92.1	37	1	US-08-477-727A-101	Sequence 101, App
96	186	92.1	37	1	US-08-471-675A-4	Sequence 4, Appl
97	186	92.1	37	1	US-08-471-675A-6	Sequence 6, Appl
98	186	92.1	37	1	US-08-471-675A-23	Sequence 23, Appl
99	186	92.1	37	1	US-08-892-549-8	Sequence 8, Appl
100	186	92.1	37	1	US-08-892-549-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-08-477-727A-4
; Sequence 4, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-4

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 2
US-08-477-727A-29
; Sequence 29, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-29

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 3
US-08-477-727A-81
; Sequence 81, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-81

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 4
US-08-477-727A-87
; Sequence 87, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
```

```
;
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-87

Query Match 100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 5
US-08-471-675A-2
; Sequence 2, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
```

```

Query Match      100.0%; Score 202; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTTVGSNTY 37
    |||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTTVGSNTY 37
    |||||

```

RESULT 7
US-08-302-069A-1
; Sequence 1, Application US/08302069A

Patent No. 6,114,304

GENERAL INFORMATION:

APPLICANT: KOLTERMAN, Orville G.

APPLICANT: YOUNG, Andrew A.

APPLICANT: BROWN, Kathleen Ann Keating
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

```

/ APPLICATION NUMBER: US/08/302,669A
/ FILING DATE: 07-SEP-1994
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/118,381
/ FILING DATE: 07-SEP-1993

```

ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids

```

: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: LOCATION: 2,7
: OTHER INFORMATION: disulfide bridge between
: OTHER INFORMATION: the Cys residues
:

```

```

; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-302-069A-1

      Query Match      100.0%;      Score 202;      DB 2;      Length 37;
      Best Local Similarity 100.0%;      Pred. No. 6e-21;
      Matches 37;      Conservative 0;      Mismatches 0;      Indels

QY      1      KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY      37
      |||||
Db      1      KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY      37
      |||||

```

RESULT 8

```
US-09-576-062A-1
; Sequence 1, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; RINK, Andrew A.
; BROWN, Kathleen Ann Keiting
; YOUNG, Timothy J.
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/576,062A
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-576-062A-1
Query Match 100.0%; Score 202; DB 2; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
RESULT 9
US-09-454-533-9
; Sequence 9, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
US-08-870-762b-1.rai
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-454-533-9
Query Match 100.0%; Score 202; DB 2; Length 37;
Best Local Similarity 100.0%; Pred. No. 6e-21;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
RESULT 10
US-08-477-727A-84
; Sequence 84, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
```

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; OPERATING SYSTEM: DOS
; SOFTWARE: Fast-SEQ Version 1.5
; CURRENT APPLICATION DATA: US/08/477.727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-84

Query Match          99.5%; Score 201; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
    |||||||||||||||||||:|||||||||||||
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 11
US-08-477-727A-97
; Sequence 97, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA: US/08/477.727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-84
```

```

; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-97

Query Match          99.5%; Score 201; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
    |||||||||||||||||||:|||||||||||||
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 12
US-08-471-675A-8
; Sequence 8, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471.675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
```


FEATURE: disulfide bridge between the Cys
OTHER INFORMATION: residues at positions 2 and 7;
OTHER INFORMATION: amidated Tyr at position 37
US-08-471-675A-8

Query Match 99.5%; Score 201; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 13

US-08-471-675A-19
Sequence 19, Application US/08471675A
Patent No. 5795861
GENERAL INFORMATION:
APPLICANT: Kolterman, Orville
APPLICANT: Rink, Timothy
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET, SUITE 4700
CITY: LOS ANGELES
STATE: CA
COUNTRY: USA
ZIP: 90071-2066

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,675A
FILING DATE: 05-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/302,069
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 213/048
TELEPHONE: 619-552-8400
TELEFAX: 619-552-0157
TELEX:

INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: disulfide bridge between the Cys
OTHER INFORMATION: residues at positions 2 and 7;
OTHER INFORMATION: amidated Tyr at position 37
US-08-471-675A-19

Query Match 99.5%; Score 201; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
RESULT 14
US-08-892-549-12
Sequence 12, Application US/08892549
Patent No. 5998367
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
TITLE OF INVENTION: USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/892,549
FILING DATE: 14-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447,849
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-12

Query Match 99.5%; Score 201; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

Db 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 15

US-08-302-069A-7
Sequence 7, Application US/08302069A
Patent No. 6114304
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.

APPLICANT: YOUNG, Andrew A.
APPLICANT: RINK, Timothy J.
APPLICANT: BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-7

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 16
US-08-302-069A-18
Sequence 18, Application US/08302069A
Patent No. 6114304
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
APPLICANT: YOUNG, Andrew A.
APPLICANT: RINK, Timothy J.
APPLICANT: BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES

STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-18

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
|||||
Db 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 17
US-09-576-062A-7
Sequence 7, Application US/09576062A
Patent No. 6608029
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
APPLICANT: YOUNG, Andrew A.
APPLICANT: RINK, Timothy J.
APPLICANT: BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/576,062A

;/ FILING DATE: 22-May-2000
;/ CLASSIFICATION: <Unknown>
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER: 08/302,069
;/ FILING DATE: 07-SEP-1994
;/ APPLICATION NUMBER: 08/118,381
;/ FILING DATE: 07-SEP-1993
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: DUFT, BRADFORD J.
;/ REGISTRATION NUMBER: 32,219
;/ REFERENCE/DOCKET NUMBER: 209/146
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 619/552-2200
;/ TELEFAX: 213/955-0440
;/ TELEX: 67-3510
;/ INFORMATION FOR SEQ ID NO: 7:
;/ SEQUENCE CHARACTERISTICS:
;/ TYPE: amino acid
;/ LENGTH: 37 amino acids
;/ STRANDEDNESS: single
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: peptide
;/ FEATURE:
;/ LOCATION: 37
;/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;/ SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-576-062A-7

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 18
US-09-576-062A-18
; Sequence 18, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-May-2000
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219

;/ REFERENCE/DOCKET NUMBER: 209/146
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 619/552-2200
;/ TELEFAX: 213/955-0440
;/ TELEX: 67-3510
;/ INFORMATION FOR SEQ ID NO: 18:
;/ SEQUENCE CHARACTERISTICS:
;/ TYPE: amino acid
;/ LENGTH: 37 amino acids
;/ STRANDEDNESS: single
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: protein
;/ FEATURE:
;/ LOCATION: 37
;/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;/ SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-576-062A-18

Query Match 99.5%; Score 201; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 8.3e-21;
Matches 36; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||

RESULT 19
US-09-454-533-12
; Sequence 12, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: US/09/454,533
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

APPLICANT: Prickett, Kathryn
TITLE OF INVENTION: APPETITE REGULATING
COMPOSITIONS
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET, SUITE 4700
CITY: LOS ANGELES
STATE: CA
COUNTRY: USA
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,727A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 214/005
TELEPHONE: 619-552-8400
TELEFAX: 619-552-0157
TELEX:
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE:
US-08-477-727A-88

Query Match 97.5%; Score 197; DB 1; Length 36;
Best Local Similarity 100.0%; Pred. No. 2.9e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 23
US-08-471-675A-11
Sequence 11, Application US/08471675A
Patent No. 5795861
GENERAL INFORMATION:
APPLICANT: Koltzman, Orville
APPLICANT: Rink, Timothy
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSES: LYON & LYON
STREET: 633 WEST FIFTH STREET, SUITE 4700
CITY: LOS ANGELES
STATE: CA
COUNTRY: USA
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,675A
FILING DATE: 05-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/302,069
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 213/048
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-8400
TELEFAX: 619-552-0157
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: disulfide bridge between the Cys
residues at positions 1 and 6;
OTHER INFORMATION: amidated Tyr at position 36
US-08-471-675A-11

Query Match 97.5%; Score 197; DB 1; Length 36;
Best Local Similarity 100.0%; Pred. No. 2.9e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
DB 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 24
US-08-302-069A-10
Sequence 10, Application US/08302069A
Patent No. 6114304
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
APPLICANT: YOUNG, Andrew A.
APPLICANT: RINK, Timothy J.
APPLICANT: BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:

```
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; STRANDEDNESS: single
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 1,6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-10

Query Match 97.5%; Score 197; DB 2; Length 36;
Best Local Similarity 100.0%; Pred. No. 2.9e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 25
US-08-576-062A-10
; Sequence 10, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/09/576,062A
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 10:
```

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-09-576-062A-10

Query Match 97.5%; Score 197; DB 2; Length 36;
Best Local Similarity 100.0%; Pred. No. 2.9e-20;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36

RESULT 26
US-08-477-727A-77
; Sequence 77, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-77
```

Query Match 97.0%; Score 196; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 4.1e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNDY 37

RESULT 27

US-08-477-727A-90
; Sequence 90, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 90:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-90

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 28

US-08-477-727A-96
; Sequence 96, Application US/08477727A

; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 96:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-96

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
DB 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 29

US-08-471-675A-12
; Sequence 12, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA

;; COUNTRY: USA
;; ZIP: 90071-2066
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSEQ Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/471.675A
;; FILING DATE: 05-JUN-1995
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/302,069
;; FILING DATE: 07-SEP-1994
;; APPLICATION NUMBER: 08/118,381
;; FILING DATE: 07-SEP-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 213/048
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619-552-8400
;; TELEFAX: 619-552-0157
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 12:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 37 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; OTHER INFORMATION: disulfide bridge between the Cys
;; OTHER INFORMATION: residues at positions 2 and 7;
;; OTHER INFORMATION: amidated Tyr at position 37
US-08-471-675A-12

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 30
US-08-471-675A-18
; Sequence 18, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471.675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/302,069
;; FILING DATE: 07-SEP-1994
;; APPLICATION NUMBER: 08/118,381
;; FILING DATE: 07-SEP-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 213/048
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619-552-8400
;; TELEFAX: 619-552-0157
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 18:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 37 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; OTHER INFORMATION: disulfide bridge between the Cys
;; OTHER INFORMATION: residues at positions 2 and 7;
;; OTHER INFORMATION: amidated Tyr at position 37
US-08-471-675A-18

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 31
US-08-892-549-16
; Sequence 16, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440


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/
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 37 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/
/ LOCATION: 2,7
/ OTHER INFORMATION: disulfide bridge between
/ OTHER INFORMATION: the Cys residues
/ LOCATION: 37
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/
US-08-892-549-16

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 32
US-08-892-549-22
/ Sequence 22, Application US/08892549
/ Patent No. 5998367
/ GENERAL INFORMATION:
/ APPLICANT: GASTA, Laura S.L. Et Al.
/ TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
/ TITLE OF INVENTION: USES THEREOF
/ NUMBER OF SEQUENCES: 41
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LYON & LYON
/ STREET: 633 WEST FIFTH STREET
/ CITY: LOS ANGELES
/ STATE: CALIFORNIA
/ COUNTRY: USA
/ ZIP: 90017
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/892,549
/ FILING DATE: 14-JUL-1997
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/447,849
/ FILING DATE: 23-MAY-1995
/ APPLICATION NUMBER: 07/794,266
/ FILING DATE: 19-NOV-1991
/ APPLICATION NUMBER: US 07/667,040
/ FILING DATE: 08-MAR-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DUFT, BRADFORD J.
/ REGISTRATION NUMBER: 32,219
/ REFERENCE/DOCKET NUMBER: 227/006
/ TELEPHONE: 619/552-2200
/ TELEFAX: 213/955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 22:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 37 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
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```
/
/ LOCATION: 2,7
/ OTHER INFORMATION: disulfide bridge between
/ OTHER INFORMATION: the Cys residues
/ LOCATION: 37
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/
US-08-892-549-22

Query Match 96.5%; Score 195; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 33
US-08-302-069A-11
/ Sequence 11, Application US/08302069A
/ Patent No. 6114304
/ GENERAL INFORMATION:
/ APPLICANT: KOLTERMAN, Orville G.
/ APPLICANT: YOUNG, Andrew A.
/ APPLICANT: RINK, Timothy J.
/ APPLICANT: BROWN, Kathleen Ann Keiting
/ TITLE OF INVENTION: METHODS FOR REGULATING
/ TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
/ NUMBER OF SEQUENCES: 30
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LYON & LYON
/ STREET: 633 WEST FIFTH STREET
/ CITY: LOS ANGELES
/ STATE: CALIFORNIA
/ COUNTRY: USA
/ ZIP: 90017
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/302,069A
/ FILING DATE: 07-SEP-1994
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/118,381
/ FILING DATE: 07-SEP-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DUFT, BRADFORD J.
/ REGISTRATION NUMBER: 32,219
/ REFERENCE/DOCKET NUMBER: 209/146
/ TELEPHONE: 619/552-2200
/ TELEFAX: 213/955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 37 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FEATURE:
/
/ LOCATION: 2,7
/ OTHER INFORMATION: disulfide bridge between
/ OTHER INFORMATION: the Cys residues
/ LOCATION: 37
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/
US-08-302-069A-11

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 34

US-08-302-069A-17
; Sequence 17, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302.069A
; FILING DATE: 07-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-17

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 35

US-09-576-062A-11
; Sequence 11, Application US/09576062A
; Patent No. 6608029

; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/576.062A
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-576-062A-11

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNNLGPVLPPTNVGSNTY 37

RESULT 36

US-09-576-062A-17
; Sequence 17, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON

STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/576,062A
FILING DATE: 22-May-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/302,069
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-576-062A-17

Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37

RESULT 37
US-09-454-533-16
Sequence 16, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-454-533-16
Query Match 96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 37
RESULT 38
US-09-454-533-22
Sequence 22, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219

```
;
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-09-454-533-22

Query Match          96.5%; Score 195; DB 2; Length 37;
Best Local Similarity 94.6%; Pred. No. 5.6e-20;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 39
US-08-471-675A-9
; Sequence 9, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

;
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-13

Query Match          96.0%; Score 194; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 40
US-08-892-549-13
; Sequence 13, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-13

Query Match          96.0%; Score 194; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 41
US-08-892-549-38
; Sequence 38, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-38

Query Match 96.0%; Score 194; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 42
US-08-302-069A-8
; Sequence 8, Application US/08302069A

; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSES: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-8

Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
Db 1 KNCATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 43
US-09-576-062A-8
; Sequence 8, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:

ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/576,062A
FILING DATE: 22-MAY-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/302,069
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 209/146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-576-062A-8

Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 44
US-09-454-533-13
Sequence 13, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S. L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533

FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-454-533-13

Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
DB 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37

RESULT 45
US-09-454-533-38
Sequence 38, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S. L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.

/ REGISTRATION NUMBER: 32,219
/ REFERENCE/DOCKET NUMBER: 227/006
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 619/552-2200
/ TELEFAX: 213/955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 38
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 37 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ LOCATION: 37
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
/ SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-454-533-38

Query Match 96.0%; Score 194; DB 2; Length 37;
Best Local Similarity 97.3%; Pred. No. 7.7e-20;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
|||||
DB 1 KNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 46
US-08-892-549-15
; Sequence 15, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et AL.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; CITY: 633 WEST FIFTH STREET
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; INFORMATION FOR SEQ ID NO: 38
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ LOCATION: 1,6
/ OTHER INFORMATION: disulfide bridge between
/ OTHER INFORMATION: the Cys residues
/ LOCATION: 36
/ OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-15

Query Match 95.5%; Score 193; DB 1; Length 36;
Best Local Similarity 97.2%; Pred. No. 1e-19;
Matches 35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
|||||
DB 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36

RESULT 47
US-09-454-533-15
; Sequence 15, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et AL.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-454-533-15

Query Match 95.5%; Score 193; DB 2; Length 36;

Best Local Similarity 97.2%; Pred. No. 1e-19;
Matches 35; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 CNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 36

RESULT 48
US-08-477-727A-17
; Sequence 17, Application US/08477727A
; Patent No. 5739106

GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:

INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-17

Query Match 95.5%; Score 193; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.1e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 49
US-08-477-727A-42
; Sequence 42, Application US/08477727A
; Patent No. 5739106

GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:

INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-17

Query Match 95.5%; Score 193; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.1e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:

INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-42

Query Match 95.5%; Score 193; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.1e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 50
US-08-477-727A-89
; Sequence 89, Application US/08477727A
; Patent No. 5739106

GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:

INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-42

Query Match 95.5%; Score 193; DB 1; Length 37;
Best Local Similarity 97.3%; Pred. No. 1.1e-19;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37
Db 1 KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY 37

RESULT 50
US-08-477-727A-89
; Sequence 89, Application US/08477727A
; Patent No. 5739106

GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES

Mon May 15 12:44:52 2006

STATE: CA
COUNTRY: USA
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,727A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 214/005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-8400
TELEFAX: 619-552-0157
TELEX:
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
US-08-477-727A-89

Query Match 95.5%; Score 193; DB 1; Length 37;
Best Local Similarity 94.6%; Pred. No. 1.1e-19;
Matches 35; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KCNTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 37
|||||
Db 1 KCNTATCATQRLANFLVHSSNNFGPVLPTNVGSNTY 37
|||||

Search completed: May 12, 2006, 15:23:38
Job time : 49 secs

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